

INVENTOR

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(c) 2009 ProQuest Info&Learning
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(c) 2009 McGraw-Hill Co. Inc
File 635:Business Dateline(R) 1985-2009/Jun 27
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File 636:Gale Group Newsletter DB(TM) 1987-2009/Jun 05
(c) 2009 Gale/Cengage

File 135:NewsRx Weekly Reports 1995-2009/Jun W2
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File 98:General Sci Abs 1984-2009/Jun
(c) 2009 The HW Wilson Co.

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Set	Items	Description
S1	8179	AU=MITCHELL S?
S2	2467	AU=MITCHELL, S?
S3	10317	S1:S2
S4	12	S3 AND (SPINE() IMPLANT?)

? t s4/3,k/1-12

Dialog eLink: [Order File History](#)
4/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0018610850 *Drawing available*
WPI Acc no: 2009-B09299/200906
Related WPI Acc No: 2009-A29042; 2009-A33758; 2009-A33761; 2009-A34878; 2009-E48769; 2009-E49296; 2009-E49439; 2009-E50457; 2009-E51269; 2009-E52050; 2009-E52878; 2009-E53254; 2009-E53540; 2009-E54617; 2009-E55114; 2009-E55161
Spinal implant for medical application, has deflection rod system that comprises outer shell accommodating inner deflection rod
Patent Assignee: SPARTEK MEDICAL INC (SPAR-N)
Inventor: CAIN D L; FLYNN J J; HANNIBAL M; HSU K Y; KLYCE H A; KLYCE H A R; MARKWART J A; MITCHELL S T; RINNER J A; WINSLOW C J; ZUCHERMAN J F

Patent Family (6 patents, 121 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2008151096	A1	20081211	WO 2008US65443	A	20080530	200906	B
US 20080306540	A1	20081211	US 2007942162	P	20070605	200906	E
			US 200828792	P	20080214		
			US 200831598	P	20080226		
			US 200857340	P	20080530		
			US 2008130032	A	20080530		
US 20080306541	A1	20081211	US 2007942162	P	20070605	200906	E
			US 200828792	P	20080214		
			US 200831598	P	20080226		

			US 200857340	P	20080530	
			US 2008130127	A	20080530	
US 20080306542	A1	20081211	US 2007942162	P	20070605	200906 E
			US 200828792	P	20080214	
			US 200831598	P	20080226	
			US 200857340	P	20080530	
			US 2008130152	A	20080530	
US 20080306546	A1	20081211	US 2007942162	P	20070605	200906 E
			US 2007832338	A	20070801	
US 20080306514	A1	20081211	US 2007942162	P	20070605	200910 E
			US 2007832273	A	20070801	

Priority Applications (no., kind, date): US 2007942162 P 20070605; US 2007942162 P 20070605; US 2007832338 A 20070801; US 2007832273 A 20070801; US 200828792 P 20080214; US 200831598 P 20080226; US 200857340 P 20080530; US 2008130032 A 20080530; US 2008130127 A 20080530; US 2008130152 A 20080530

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2008151096	A1	EN	128	85		
National Designated States,Original	AE AG AL AM AO AT AU AZ BA BB BG BH BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW					
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HR HU IE IS IT KE LS LT LU LV MC MT MW MZ NA NL NO OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
US 20080306540	A1	EN			Related to Provisional	US 2007942162
					Related to Provisional	US 200828792
					Related to Provisional	US 200831598
					Related to Provisional	US 200857340
US 20080306541	A1	EN			Related to Provisional	US 2007942162
					Related to Provisional	US 200828792
					Related to Provisional	US 200831598
					Related to Provisional	US 200857340

US 20080306542	A1	EN			Related to Provisional	US 2007942162
					Related to Provisional	US 200828792
					Related to Provisional	US 200831598
					Related to Provisional	US 200857340
US 20080306546	A1	EN			Related to Provisional	US 2007942162
US 20080306514	A1	EN			Related to Provisional	US 2007942162

...**Original Titles:SPINE IMPLANT WITH A DEFELCTION ROD SYSTEM ANCHORED TO A BONE ANCHOR AND METHOD...** ...**SPINE IMPLANT WITH A DUAL DEFLECTION ROD SYSTEM INCLUDING A DEFLECTION LIMITING SHEILD ASSOCIATED WITH A BONE...** ...**SPINE IMPLANT WITH A DEFLECTION ROD SYSTEM AND CONNECTING LINKAGES AND METHOD**
...Inventor: **MITCHELL S T** Original Publication Data by
AuthorityArgentina**Publication No.** ...Inventor name & address:**Mitchell, Steven T...**
...**Mitchell, Steven T...** ...**Mitchell, Steven T Claims:** What is claimed is: **1. A spine implant** comprising: a rod having a first end and a second end; said rod having a...

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4/3,K/2 (Item 2 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0018530646 *Drawing available*

WPI Acc no: 2009-A29042/200901

Related WPI Acc No: 2009-A33758; 2009-A33761; 2009-A34878; 2009-B09299; 2009-E48769; 2009-E49296; 2009-E49439; 2009-E50457; 2009-E51269; 2009-E52050; 2009-E52878; 2009-E53254; 2009-E53540; 2009-E54617; 2009-E55114; 2009-E55161

Spine implant e.g. deflection rod system implant, for patient, has bone anchor thread extending along bone anchor and over outer surface of anchor cavity such that portion of rod system is adapted to be implanted beneath surface of bone

Patent Assignee: SPARTEK MEDICAL INC (SPAR-N)

Inventor: CAIN D L; FLYNN J J; HSU K Y; KLYCE H A; KLYCE H A R;

MITCHELL S T; WINSLOW C J; ZUCHERMAN J F

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20080306525	A1	20081211	US 2007942162	P	20070605	200901	B
			US 200828792	P	20080214		
			US 200831598	P	20080226		

			US 200857340	P	20080530
			US 2008130095	A	20080530

Priority Applications (no., kind, date): US 2007942162 P 20070605; US 200828792 P 20080214; US 200831598 P 20080226; US 200857340 P 20080530; US 2008130095 A 20080530

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20080306525	A1	EN	47	29	Related to Provisional	US 2007942162
					Related to Provisional	US 200828792
					Related to Provisional	US 200831598
					Related to Provisional	US 200857340

Spine implant e.g. deflection rod system implant, for patient, has bone anchor thread extending along bone... Original Titles:SPINE IMPLANT WITH A DEFLECTION ROD SYSTEM INCLUDING A DEFLECTION LIMITING SHIELD ASSOCIATED WITH A BONE SCREW... ..Inventor: MITCHELL S T Alerting Abstract USE - Spine implant such as dynamic stabilization, motion preservation spinal implant system and deflection rod system implant, for ... Original Publication Data by AuthorityArgentina**Publication No.** Inventor name & address:**Mitchell, Steven T...**

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4/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0017651630 *Drawing available*

WPI Acc no: 2008-E72077/200832

XRPX Acc No: N2008-370700

Surgical instrument e.g. tensioner tool for implanting interspinous process implant during spine fixation surgery has handle that moves jaws away from engagement surface and pulls binder through portion of surgical implant

Patent Assignee: KYPHON INC (KYPH-N); ST FRANCIS MEDICAL TECHNOLOGIES LLC (SFRA-N)

Inventor: FLYNN J J; HSU K Y; MARKWART J A; MITCHELL S T; WINSLOW C J; YERBY S A; ZUCHERMAN J F

Patent Family (3 patents, 120 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type

WO 2008052074	A2	20080502	WO 2007US82419	A	20071024	200832	B
WO 2008052074	A3	20080626				200844	E
US 20080177298	A1	20080724	US 2006853957	P	20061024	200851	E
			US 2007874862	A	20071018		

Priority Applications (no., kind, date): US 2006853957 P 20061024; US 2007874862 A 20071018

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2008052074	A2	EN	28	4		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BH BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW					
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MT MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
WO 2008052074	A3	EN				
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BH BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW					
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MT MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
US 20080177298	A1	EN			Related to Provisional	US 2006853957

...Inventor: **MITCHELL S T Alerting Abstract** ... methods, or other spine fixation devices and methods. Provides minimally invasive surgical implantation methods for **spine implants**. Facilitates minimally invasive surgical implantation while minimizing further trauma to the spine, and eliminates the... Original Publication Data by AuthorityArgentina**Publication No.** ...Inventor name & address:**Mitchell, Steven T...**

...MITCHELL, Steven, T

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4/3,K/4 (Item 4 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0017600010 *Drawing available*

WPI Acc no: 2008-E20453/200829

Related WPI Acc No: 1998-387722; 1999-302876; 1999-302877; 2001-535793; 2001-541208; 2001-647829; 2002-097727; 2002-106252; 2002-155104; 2002-574174; 2002-607896; 2002-618916; 2002-691028; 2003-057304; 2003-091329; 2003-480437; 2004-376028; 2004-390178; 2004-570770; 2004-593104; 2004-689905; 2004-834406; 2005-725168; 2006-240224; 2006-240225; 2006-305914; 2006-649172; 2006-670288; 2006-670319; 2006-756404; 2006-813188; 2007-871988; 2008-B77651; 2008-B77653; 2008-B77654; 2008-C05061; 2008-C05068; 2008-C05069; 2008-C05891; 2008-C05892; 2008-C05913; 2008-C05914; 2008-C05915; 2008-C17557; 2008-C18291; 2008-C18294; 2008-C34600; 2008-C62788; 2008-C62789; 2008-C62790; 2008-C62791; 2008-D00541; 2008-D00559; 2008-D00560; 2008-D00561; 2008-D15551; 2008-D64924; 2008-F30497; 2008-H27364; 2008-J02945; 2008-K91231; 2008-K92956; 2008-N50476

Interspinous implant implanting apparatus for e.g. degenerative disorder treatment, has implant inserted into body and moved along another implant, where implants have wings associated with respective spinous process

Patent Assignee: FLYNN J J (FLYN-I); HSU K Y (HSUK-I); KLYCE H A (KLYC-I); MARKWART J A (MARK-I); MITCHELL S T (MITC-I); WINSLOW C J (WINS-I); YERBY S A (YERB-I) ; ZUCHERMAN J F (ZUCH-I)

Inventor: FLYNN J J; HSU K Y; KLYCE H A; MARKWART J A; **MITCHELL S T**; WINSLOW C J; YERBY S A; ZUCHERMAN J F

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20080021468	A1	20080124	US 2002421915	P	20021029	200829	B
			US 2003472817	P	20030522		
			US 2003694103	A	20031027		
			US 2004816173	A	20040401		
			US 2004850267	A	20040520		
			US 2004612465	P	20040923		
			US 2004612582	P	20040923		
			US 2005663885	P	20050321		
			US 2005663918	P	20050321		
			US 2005663922	P	20050321		

			US 2005664049	P	20050322
			US 2005664076	P	20050322
			US 2005664311	P	20050322
			US 200595440	A	20050331
			US 200595680	A	20050331
			US 2005672402	P	20050418
			US 2005234555	A	20050923
			US 2006377971	A	20060317
			US 2006378108	A	20060317
			US 2006378892	A	20060317
			US 2006378893	A	20060317
			US 2006378894	A	20060317
			US 2006384055	A	20060317
			US 2006389002	A	20060324
			US 2007806528	A	20070531

Priority Applications (no., kind, date): US 2002421915 P 20021029; US 2003472817 P 20030522; US 2003694103 A 20031027; US 2004816173 A 20040401; US 2004850267 A 20040520; US 2004612465 P 20040923; US 2004612582 P 20040923; US 2005663885 P 20050321; US 2005663918 P 20050321; US 2005663922 P 20050321; US 2005664049 P 20050322; US 2005664076 P 20050322; US 2005664311 P 20050322; US 200595440 A 20050331; US 200595680 A 20050331; US 2005672402 P 20050418; US 2005234555 A 20050923; US 2006377971 A 20060317; US 2006378108 A 20060317; US 2006378892 A 20060317; US 2006378893 A 20060317; US 2006378894 A 20060317; US 2006384055 A 20060317; US 2006389002 A 20060324; US 2007806528 A 20070531

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20080021468	A1	EN	199	91	Related to Provisional	US 2002421915
					Related to Provisional	US 2003472817
					C-I-P of application	US 2003694103
					C-I-P of application	US 2004816173
					C-I-P of application	US 2004850267
					Related to Provisional	US 2004612465
					Related to Provisional	US 2004612582
					Related to Provisional	US 2005663885
					Related to Provisional	US 2005663918

					Related to Provisional	US 2005663922
					Related to Provisional	US 2005664049
					Related to Provisional	US 2005664076
					Related to Provisional	US 2005664311
					C-I-P of application	US 200595440
					C-I-P of application	US 200595680
					Related to Provisional	US 2005672402
					C-I-P of application	US 2005234555
					C-I-P of application	US 2006377971
					C-I-P of application	US 2006378108
					C-I-P of application	US 2006378892
					C-I-P of application	US 2006378893
					C-I-P of application	US 2006378894
					C-I-P of application	US 2006384055
					C-I-P of application	US 2006389002

...Inventor: **MITCHELL S T Alerting Abstract** ...ADVANTAGE - The **spine implants** alleviate pain caused by spinal stenosis by distracting or increasing the space between vertebrae to ... Original Publication Data by AuthorityArgentina**Publication No.**
...Inventor name & address:**Mitchell, Steven T**

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4/3,K/5 (Item 5 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0017397852 *Drawing available*
WPI Acc no: 2008-C18294/200816
Related WPI Acc No: 1998-387722; 1999-302876; 1999-302877; 2001-535793; 2001-541208; 2001-647829; 2002-097727; 2002-106252; 2002-155104; 2002-574174; 2002-607896; 2002-618916; 2002-691028; 2003-057304; 2003-091329; 2003-480437; 2004-376028; 2004-390178; 2004-570770; 2004-593104; 2004-689905; 2004-834406; 2005-725168; 2006-240224; 2006-240225; 2006-305914; 2006-649172; 2006-670288; 2006-670319; 2006-756404; 2006-813188; 2007-871988; 2008-B77651; 2008-B77653; 2008-B77654; 2008-C05061; 2008-C05068; 2008-C05069; 2008-C05891; 2008-C05892; 2008-C05913; 2008-C05914; 2008-C05915; 2008-C17557; 2008-C18291; 2008-C34600; 2008-C62788; 2008-C62789; 2008-C62790; 2008-C62791; 2008-D00541; 2008-D00559; 2008-D00560; 2008-D00561; 2008-D15551; 2008-D64924; 2008-E20453; 2008-F30497; 2008-H27364; 2008-J02945; 2008-K91231; 2008-K92956; 2008-N50476

Implant inserting method for use in patient's body, involves rotating distal end portion of tool to couple end portion of elongated member to another end portion of elongated member after disposing

Patent Assignee: FLYNN J J (FLYN-I); HSU K Y (HSUK-I); KLYCE H A (KLYC-I); MARKWART J A (MARK-I); MITCHELL S T (MITC-I); WINSLOW C J (WINS-I); YERBY S A (YERB-I) ; ZUCHERMAN J F (ZUCH-I)

Inventor: FLYNN J J; HSU K Y; KLYCE H A; MARKWART J A; **MITCHELL S T**; WINSLOW C J; YERBY S A; ZUCHERMAN J F

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20080046087	A1	20080221	US 2004612465	P	20040923	200816	B
			US 200595680	A	20050331		
			US 2007923814	A	20071025		

Priority Applications (no., kind, date): US 2004612465 P 20040923; US 200595680 A 20050331; US 2007923814 A 20071025

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20080046087	A1	EN	40	12	Related to Provisional	US 2004612465
					Continuation of application	US 200595680

...Inventor: **MITCHELL S T Alerting Abstract** ...ADVANTAGE - The method develops **spine implants** that alleviate pain caused by spinal stenosis, and maintains the space between the vertebrae to... Original Publication Data by Authority Argentina **Publication No.** ...Inventor name & address: **Mitchell, Steven T**

Dialog eLink: [Order File History](#)

4/3,K/6 (Item 6 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0017385474 *Drawing available*

WPI Acc no: 2008-C05915/200815

Related WPI Acc No: 1998-387722; 1999-302876; 1999-302877; 2001-535793; 2001-541208; 2001-647829; 2002-097727; 2002-106252; 2002-155104; 2002-574174; 2002-607896; 2002-618916; 2002-691028; 2003-057304; 2003-091329; 2003-480437; 2004-376028; 2004-390178; 2004-570770; 2004-593104; 2004-689905; 2004-834406; 2005-

725168; 2006-240224; 2006-240225; 2006-305914; 2006-649172; 2006-670288; 2006-670319; 2006-756404; 2006-813188; 2007-871988; 2008-B77651; 2008-B77653; 2008-B77654; 2008-C05061; 2008-C05068; 2008-C05069; 2008-C05891; 2008-C05892; 2008-C05913; 2008-C05914; 2008-C17557; 2008-C18291; 2008-C18294; 2008-C34600; 2008-C62788; 2008-C62789; 2008-C62790; 2008-C62791; 2008-D00541; 2008-D00559; 2008-D00560; 2008-D00561; 2008-D15551; 2008-D64924; 2008-E20453; 2008-F30497; 2008-H27364; 2008-J02945; 2008-K91231; 2008-K92956; 2008-N50476

Interspinous implant implanting apparatus, has spine implant with portion configured to be disposed between spinous processes, and another spine implant coupled to former implant after portion of former implant is disposed

Patent Assignee: FLYNN J J (FLYN-I); HSU K Y (HSUK-I); MARKWART J A (MARK-I); MITCHELL S T (MITC-I); WINSLOW C J (WINS-I); YERBY S A (YERB-I); ZUCHERMAN J F (ZUCH-I)

Inventor: FLYNN J J; HSU K Y; MARKWART J A; **MITCHELL S T**; WINSLOW C J; YERBY S A; ZUCHERMAN J F

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20080039947	A1	20080214	US 2002421915	P	20021029	200815	B
			US 2003472817	P	20030522		
			US 2003694103	A	20031027		
			US 2004816173	A	20040401		
			US 2004850267	A	20040520		
			US 2004612465	P	20040923		
			US 2004612582	P	20040923		
			US 2005663885	P	20050321		
			US 2005663918	P	20050321		
			US 2005663922	P	20050321		
			US 2005664049	P	20050322		
			US 2005664076	P	20050322		
			US 2005664311	P	20050322		
			US 200595440	A	20050331		
			US 200595680	A	20050331		
			US 2005672402	P	20050418		
			US 2005234555	A	20050923		
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			US 2006378108	A	20060317		
			US 2006378892	A	20060317		
			US 2006378893	A	20060317		

			US 2006378894	A	20060317
			US 2006384055	A	20060317
			US 2006389002	A	20060324
			US 2007806526	A	20070531
			US 2007806528	A	20070531
			US 2007771087	A	20070629

Priority Applications (no., kind, date): US 2002421915 P 20021029; US 2003472817 P 20030522; US 2003694103 A 20031027; US 2004816173 A 20040401; US 2004850267 A 20040520; US 2004612465 P 20040923; US 2004612582 P 20040923; US 2005663885 P 20050321; US 2005663918 P 20050321; US 2005663922 P 20050321; US 2005664049 P 20050322; US 2005664076 P 20050322; US 2005664311 P 20050322; US 200595440 A 20050331; US 200595680 A 20050331; US 2005672402 P 20050418; US 2005234555 A 20050923; US 2006377971 A 20060317; US 2006378108 A 20060317; US 2006378892 A 20060317; US 2006378893 A 20060317; US 2006378894 A 20060317; US 2006384055 A 20060317; US 2006389002 A 20060324; US 2007806526 A 20070531; US 2007806528 A 20070531; US 2007771087 A 20070629

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20080039947	A1	EN	200	91	Related to Provisional	US 2002421915
					Related to Provisional	US 2003472817
					C-I-P of application	US 2003694103
					C-I-P of application	US 2004816173
					C-I-P of application	US 2004850267
					Related to Provisional	US 2004612465
					Related to Provisional	US 2004612582
					Related to Provisional	US 2005663885
					Related to Provisional	US 2005663918
					Related to Provisional	US 2005663922
					Related to Provisional	US 2005664049
					Related to Provisional	US 2005664076
					Related to Provisional	US 2005664311
					C-I-P of application	US 200595440
					C-I-P of application	US 200595680
					Related to Provisional	US 2005672402
					C-I-P of application	US 2005234555

				C-I-P of application	US 2006377971
				C-I-P of application	US 2006378108
				C-I-P of application	US 2006378892
				C-I-P of application	US 2006378893
				C-I-P of application	US 2006378894
				C-I-P of application	US 2006384055
				C-I-P of application	US 2006389002
				Continuation of application	US 2007806526
				Continuation of application	US 2007806528

Interspinous implant implanting apparatus, has spine implant with portion configured to be disposed between spinous processes, and another spine implant coupled to former implant after portion of former implant is disposed ...Inventor: MITCHELL S T Alerting Abstract ...NOVELTY - The apparatus has a **spine implant (800) with a portion configured to be disposed between spinous processes. Another **spine implant** is configured to be coupled to the former implant after the portion of the former... ...ADVANTAGE - The apparatus enables the **spine implants** to alleviate pain caused by spinal stenosis, and to increase the foraminal area and reduce pressure on the nerves and blood vessels of the spine, so that the **spine implants** preserve the physiology of the spine. The apparatus accommodates distinct anatomical structures of the spine... Original Publication Data by AuthorityArgentina**Publication No.** ...Inventor name & address:**Mitchell, Steven T****

Dialog eLink: [Order File History](#)

4/3,K/7 (Item 7 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0017384627 *Drawing available*

WPI Acc no: 2008-C05068/200815

Related WPI Acc No: 1998-387722; 1999-302876; 1999-302877; 2001-535793; 2001-541208; 2001-647829; 2002-097727; 2002-106252; 2002-155104; 2002-574174; 2002-607896; 2002-618916; 2002-691028; 2003-057304; 2003-091329; 2003-480437; 2004-376028; 2004-390178; 2004-570770; 2004-593104; 2004-689905; 2004-834406; 2005-725168; 2006-240224; 2006-240225; 2006-305914; 2006-649172; 2006-670288; 2006-670319; 2006-756404; 2006-813188; 2007-871988; 2008-B77651; 2008-B77653; 2008-B77654; 2008-C05061; 2008-C05069; 2008-C05891; 2008-C05892; 2008-C05913; 2008-C05914; 2008-C05915; 2008-C17557; 2008-C18291; 2008-C18294; 2008-C34600; 2008-C62788; 2008-C62789; 2008-C62790; 2008-C62791; 2008-D00541; 2008-

D00559; 2008-D00560; 2008-D00561; 2008-D15551; 2008-D64924; 2008-E20453; 2008-F30497; 2008-H27364; 2008-J02945; 2008-K91231; 2008-K92956; 2008-N50476

Method of spine implantation in treatment of spinal stenosis, involves arranging implant between adjacent spinous processes in configuration, so that wings limit or block displacement of implant along longitudinal axis of implant

Patent Assignee: FLYNN J J (FLYN-I); HSU K Y (HSUK-I); MARKWART J A (MARK-I); MITCHELL S T (MITC-I); WINSLOW C J (WINS-I); YERBY S A (YERB-I); ZUCHERMAN J F (ZUCH-I)

Inventor: FLYNN J J; HSU K Y; MARKWART J A; **MITCHELL S T**; WINSLOW C J; YERBY S A; ZUCHERMAN J F

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20080033553	A1	20080207	US 2002421915	P	20021029	200815	B
			US 2003472817	P	20030522		
			US 2003694103	A	20031027		
			US 2004816173	A	20040401		
			US 2004850267	A	20040520		
			US 2004612465	P	20040923		
			US 2004612582	P	20040923		
			US 2005663885	P	20050321		
			US 2005663918	P	20050321		
			US 2005663922	P	20050321		
			US 2005664049	P	20050322		
			US 2005664076	P	20050322		
			US 2005664311	P	20050322		
			US 200595440	A	20050331		
			US 200595680	A	20050331		
			US 2005672402	P	20050418		
			US 2005234555	A	20050923		
			US 2006377971	A	20060317		
			US 2006378108	A	20060317		
			US 2006378892	A	20060317		
			US 2006378893	A	20060317		
			US 2006378894	A	20060317		
			US 2006384055	A	20060317		
			US 2006389002	A	20060324		
			US 2007806526	A	20070531		

			US 2007806528	A	20070531
			US 2007768222	A	20070626

Priority Applications (no., kind, date): US 2002421915 P 20021029; US 2003472817 P 20030522; US 2003694103 A 20031027; US 2004816173 A 20040401; US 2004850267 A 20040520; US 2004612465 P 20040923; US 2004612582 P 20040923; US 2005663885 P 20050321; US 2005663918 P 20050321; US 2005663922 P 20050321; US 2005664049 P 20050322; US 2005664076 P 20050322; US 2005664311 P 20050322; US 200595440 A 20050331; US 200595680 A 20050331; US 2005672402 P 20050418; US 2005234555 A 20050923; US 2006377971 A 20060317; US 2006378108 A 20060317; US 2006378892 A 20060317; US 2006378893 A 20060317; US 2006378894 A 20060317; US 2006384055 A 20060317; US 2006389002 A 20060324; US 2007806526 A 20070531; US 2007806528 A 20070531; US 2007768222 A 20070626

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20080033553	A1	EN	199	91	Related to Provisional	US 2002421915
					Related to Provisional	US 2003472817
					C-I-P of application	US 2003694103
					C-I-P of application	US 2004816173
					C-I-P of application	US 2004850267
					Related to Provisional	US 2004612465
					Related to Provisional	US 2004612582
					Related to Provisional	US 2005663885
					Related to Provisional	US 2005663918
					Related to Provisional	US 2005663922
					Related to Provisional	US 2005664049
					Related to Provisional	US 2005664076
					Related to Provisional	US 2005664311
					C-I-P of application	US 200595440
					C-I-P of application	US 200595680
					Related to Provisional	US 2005672402
					C-I-P of application	US 2005234555
					C-I-P of application	US 2006377971
					C-I-P of application	US 2006378108
					C-I-P of application	US 2006378892
					C-I-P of application	US 2006378893

				C-I-P of application	US 2006378894
				C-I-P of application	US 2006384055
				C-I-P of application	US 2006389002
				Continuation of application	US 2007806526
				Continuation of application	US 2007806528

Method of spine implantation in treatment of spinal stenosis, involves arranging implant between adjacent spinous processes in configuration, so... ...Inventor: MITCHELL S T Alerting Abstract USE - Method of **spine implantation** in treatment of spinal stenosis... ...DESCRIPTION OF DRAWINGS - The drawing shows the perspective view of the **spine implant** having the wing with teardrop-shaped cross-section... Original Publication Data by AuthorityArgentina**Publication No.** ...Inventor name & address:**Mitchell, Steven T**

Dialog eLink: [Order File History](#)

4/3,K/8 (Item 8 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0016117542 *Drawing available*

WPI Acc no: 2006-649172/200667

Related WPI Acc No: 1998-387722; 1999-302876; 1999-302877; 2001-535793; 2001-541208; 2001-647829; 2002-097727; 2002-106252; 2002-155104; 2002-574174; 2002-607896; 2002-618916; 2002-691028; 2003-057304; 2003-091329; 2003-480437; 2004-376028; 2004-390178; 2004-570770; 2004-593104; 2004-689905; 2004-834406; 2005-725168; 2006-240224; 2006-240225; 2006-305914; 2006-670288; 2006-670319; 2006-756404; 2006-813188; 2007-871988; 2008-B77651; 2008-B77653; 2008-B77654; 2008-C05061; 2008-C05068; 2008-C05069; 2008-C05891; 2008-C05892; 2008-C05913; 2008-C05914; 2008-C05915; 2008-C17557; 2008-C18291; 2008-C18294; 2008-C34600; 2008-C62788; 2008-C62789; 2008-C62790; 2008-C62791; 2008-D00541; 2008-D00559; 2008-D00560; 2008-D00561; 2008-D15551; 2008-D64924; 2008-E20453; 2008-F30497; 2008-H27364; 2008-J02945; 2008-K91231; 2008-K92956; 2008-N50476

Interspinous implant to be inserted between spinous processes, comprises spacer positioned between spinous processes and lead-in screw to guide implant between spinous processes thus selectively disposing spacer is between spinous processes

Patent Assignee: FLYNN J J (FLYN-I); HSU K Y (HSUK-I); MARKWART J A (MARK-I); MITCHELL S T (MITC-I); ST FRANCIS MEDICAL TECHNOLOGIES LLC (SFRA-N); ST FRANCIS MEDICAL TECHNOLOGY INC (SFRA-N); WINSLOW C J (WINS-I); YERBY S A (YERB-I) ; ZUCHERMAN J F (ZUCH-I); KYPHON INC (KYPH-N)

Inventor: FLYNN J J; HSU K Y; MARKWART J A; MITCHELL S T; WINSLOW C

J; YERBY S A; ZUCHERMAN J F; FLYNN J; HSU K; MARKWART J; MITCHELL S; WINSLOW C; YERBY S; ZUCHERMAN J

Patent Family (9 patents, 112 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2006102428	A1	20060928	WO 2006US10434	A	20060321	200667	B
US 20060265066	A1	20061123	US 2005663922	P	20050321	200678	E
			US 2006378892	A	20060317		
AU 2006227004	A1	20060928	AU 2006227004	A	20060321	200765	E
AU 2006227004	A2	20060928	AU 2006227004	A	20060321	200801	E
EP 1868537	A1	20071226	EP 2006739290	A	20060321	200803	E
			WO 2006US10434	A	20060321		
US 20080046086	A1	20080221	US 2005663922	P	20050321	200816	E
			US 2006378892	A	20060317		
			US 2007923738	A	20071025		
CN 101146495	A	20080319	CN 200680008908	A	20060321	200842	E
			WO 2006US10434	A	20060321		
JP 2008532731	W	20080821	WO 2006US10434	A	20060321	200857	E
			JP 2008503136	A	20060321		
KR 2008040619	A	20080508	WO 2006US10434	A	20060321	200869	E
			KR 2007724292	A	20071022		

Priority Applications (no., kind, date): US 2005663922 P 20050321; US 2006378892 A 20060317; US 2007923738 A 20071025

Patent Details					
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
WO 2006102428	A1	EN	47	10	
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW				
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW				
US	A1	EN			Related to Provisional US 2005663922

20060265066						
AU 2006227004	A1	EN			Based on OPI patent	WO 2006102428
AU 2006227004	A2	EN			Based on OPI patent	WO 2006102428
EP 1868537	A1	EN			PCT Application	WO 2006US10434
					Based on OPI patent	WO 2006102428
Regional Designated States,Original	AT BE BG LT LU LV	CH CY CZ MC NL PL	DE DK EE ES FI FR GB GR HU IE IS IT LI PT RO SE SI SK TR			
US 20080046086	A1	EN			Related to Provisional	US 2005663922
					Continuation of application	US 2006378892
CN 101146495	A	ZH			PCT Application	WO 2006US10434
					Based on OPI patent	WO 2006102428
JP 2008532731	W	JA	27		PCT Application	WO 2006US10434
					Based on OPI patent	WO 2006102428
KR 2008040619	A	KO			PCT Application	WO 2006US10434
					Based on OPI patent	WO 2006102428

...Inventor: **MITCHELL S T...** ...**MITCHELL S Alerting Abstract** ...ADVANTAGE -
The minimally invasive surgical implantation method for **spine implants** preserves the
physiology of the spine. The implant accommodates the distinct anatomical structures of
the... Original Publication Data by AuthorityArgentina**Publication No.** ...Inventor name
& address:**MITCHELL S T...** ...**MITCHELL S T...** ...**MITCHELL S T...**
...**MITCHELL S...** ...**MITCHELL, Steven, T...** ...**Mitchell, Steve T...** ...**Mitchell,**
Steven T... ...**MITCHELL, Steven, T**

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4/3,K/9 (Item 9 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0015429497 *Drawing available*
WPI Acc no: 2005-778059/200579
XRAM Acc no: C2005-238495
XRPX Acc No: N2005-642571

**Interspinous process implant for securement to spine implant to maintain
distraction of adjacent interspinous processes, has spacer to be positioned between
adjacent spinous processes, first tether secured to spacer, and second tether**

Patent Assignee: ST FRANCIS MEDICAL TECHNOLOGIES LLC (SFRA-N);
 KYPHON SARL (KYPH-N)
 Inventor: MITCHELL S; WINSLOW C J

Patent Family (2 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050245929	A1	20051103	US 2004565971	P	20040428	200579	B
			US 20043091	A	20041203		
US 7524324	B2	20090428	US 2004565971	P	20040428	200930	E
			US 20043091	A	20041203		

Priority Applications (no., kind, date): US 2004565971 P 20040428; US 2004565971 P 20040428; US 20043091 A 20041203

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050245929	A1	EN	30	23	Related to Provisional	US 2004565971
US 7524324	B2	EN			Related to Provisional	US 2004565971

Interspinous process implant for securement to spine implant to maintain distraction of adjacent interspinous processes, has spacer to be positioned between adjacent spinous... Inventor: MITCHELL S... **Alerting Abstract ...NOVELTY -** A interspinous process implant (100) for securement to second **spine implant** to maintain distraction of adjacent interspinous processes, comprises a spacer (110) adapted to be positioned ... Each of first and second tethers is adapted to secure the spacer to the second **spine implant**. ... **USE -** The interspinous process implant is for securement to second **spine implant** to maintain distraction of adjacent interspinous processes (claimed... Original Publication Data by Authority Argentina **Publication No.** ...Inventor name & address: **Mitchell, Steve**... **Mitchell, Steve** ... **Claims:** distraction of adjacent interspinous processes and which is adapted to be secured to a second **spine implant**, the implant comprising: a spacer adapted to be positioned between adjacent spinous processes; a first... spacer, the first and second tethers each adapted to secure the spacer to the second **spine implant**. ... spinous processes of a patient and which is adapted to be secured to a second **spine implant**, the first implant comprising: a spacer body adapted to be positioned between the adjacent spinous... end, the first and second tethers each adapted to secure the spacer to the second **spine implant** so as to inhibit movement of the spacer from between the spinous processes; a first

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 4/3,K/10 (Item 10 from file: 350)
 DIALOG(R)File 350: Derwent WPIX

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0015129023 *Drawing available*

WPI Acc no: 2005-478556/200548

Related WPI Acc No: 2005-444520

XRPX Acc No: N2005-389645

Intervertebral implant used for replacement of e.g. intervertebral disk, has attachment mechanism which engages vertebral body, and which extend, when implanted, along lateral direction with respect to vertebral body

Patent Assignee: ST FRANCIS MEDICAL TECHNOLOGIES LLC (SFRA-N)

Inventor: FLYNN J J; HSU K Y; MITCHELL S T; WINSLOW C J; YERBY S A; ZUCHERMAN J F

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050154462	A1	20050714	US 2003526724	P	20031202	200548	B
			US 2004981863	A	20041105		

Priority Applications (no., kind, date): US 2003526724 P 20031202; US 2004981863 A 20041105

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050154462	A1	EN	33	9	Related to Provisional	US 2003526724

...Inventor: **MITCHELL S T Alerting Abstract** ... a kit for inserting interspinous disk replacement implant in a **spine**; and an interspinous **implant**. Original Publication Data by AuthorityArgentina**Publication No.** ...Inventor name & address:**Mitchell, Steven T**

Dialog eLink: Order File History

4/3,K/11 (Item 11 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0014204568 *Drawing available*

WPI Acc no: 2004-390186/200436

XRAM Acc no: C2004-146225

XRPX Acc No: N2004-310606

Implant for lumbosacral regions of spine to alleviate pain and increase lumbosacral stability comprises a spacer contacting a first vertebrae and beam adapted to engage

spinous process, and a base adapted to be mounted to a second vertebrae

Patent Assignee: MITCHELL S (MITC-I); ST FRANCIS MEDICAL TECHNOLOGIES LLC (SFRA-N)

Inventor: **MITCHELL S**

Patent Family (4 patents, 104 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2004039283	A2	20040513	WO 2003US33799	A	20031027	200436	B
US 20040097931	A1	20040520	US 2002422020	P	20021029	200436	E
			US 2003685139	A	20031014		
AU 2003283023	A1	20040525	AU 2003283023	A	20031027	200468	E
AU 2003283023	A8	20051110	AU 2003283023	A	20031027	200634	E

Priority Applications (no., kind, date): US 2002422020 P 20021029; US 2003685139 A 20031014

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2004039283	A2	EN	34	6		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW					
Regional Designated States,Original	AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
US 20040097931	A1	EN			Related to Provisional	US 2002422020
AU 2003283023	A1	EN			Based on OPI patent	WO 2004039283
AU 2003283023	A8	EN			Based on OPI patent	WO 2004039283

Inventor: **MITCHELL S Alerting Abstract** ... the vertebrae, in particular between S1 and L5 vertebrae in a spine; and kit for **implanting** an interspinous implant... Original Publication Data by AuthorityArgentina**Publication No.** Inventor name & address:**MITCHELL S...** ...**MITCHELL S...** ...**Mitchell, Steve...** ...**MITCHELL, Steve**

4/3,K/12 (Item 1 from file: 23)

DIALOG(R)File 23: CSA Technology Research Database

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0012237462 IP Accession No: 200906-71-1171757; 200906-61-1193007;
20091150879; A09-99-1154283

System and method for an interspinous process implant as a supplement to a spine stabilization implant

Winslow, Charles J; **Mitchell, Steve**
, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netaht ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=75 24324.PN.&OS=pn/7524324&RS=PN/7524324>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Winslow, Charles J; **Mitchell, Steve**

Descriptors: Spine; Implants; Stabilization; Patients; Receiving; Vertebrae

PATENTS

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File 347:JAPIO Dec 1976-2009/Jan(Updated 090503)
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File 350:Derwent WPIX 1963-2009/UD=200939
(c) 2009 Thomson Reuters

? ds

Set	Items	Description
S1	242341	VERTEBRA? OR INTERVERTEB? OR SPINE? OR SPINAL OR SPINOUS OR LUMBAR OR VERTEBR? OR BACKBONE OR BONE? ? OR DISC()NUCLEUS OR ORTHOPED? OR ORTHOPAED? OR SKELET? OR OSSEO? OR OSTEOLOG? OR OSTEOID OR OSTEOLOG? OR ANNULUS OR SYNOVIAL OR CONDYL? OR INTERSPINOUS?? OR INTERSPINAL?? OR BETWEEN(1W)(SPINOUS OR VERTEBRA? ?)
S2	1249713	HOOK??? OR FASTENER? OR (FASTEN? OR ATTACH? OR RETAIN? OR RETENTION?) (2N)(MEMBER? ? OR ELEMENT? ? OR MECHANISM? OR DEVICE? ?) OR CLAMP OR CLAMPS OR CLASP OR CLASPS OR CLOSURE OR CLOSURES OR CLIP OR CLIPS
S3	257552	SPACER? ? OR IMPLANT? ?
S4	2988557	BRACE? OR STABILIZE? OR SUPPORT?
S5	2401586	NUT? OR SCREW? ? OR POST OR POSTS OR PIN OR PINS OR ROD OR RODS OR BOLT OR BOLTS OR PEG OR PEGS
S6	11467052	DEVICE? OR APPARATUS? OR INSTRUMENT? OR IMPLEMENT? OR TOOL? ?
S7	21485	S1 AND S2
S8	3225	S7 AND S3
S9	8438	S7 AND S4
S10	8797	S7 AND S5
S11	1151	S8 AND S9
S12	1874	S8 AND S10
S13	699	S11 AND S12
S14	6350	S1(5N)S2
S15	1395	S14 AND S3
S16	502	S15 AND S4
S17	340	S16 AND S5
S18	270	S17 AND S6
S19	58	S18 AND BASE?
S20	9	S19 NOT PY>2002

t s20/3,k/1-9

Dialog eLink: Order File History

20/3,K/1 (Item 1 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0009477334 *Drawing available*
WPI Acc no: 1999-418541/199935
XRPX Acc No: N1999-312436

System for fitting temporary dental prosthesis in patients fitted with permanent dental implants

Patent Assignee: DIRO INC (DIRO-N)

Inventor: MORGAN V J

Patent Family (4 patents, 80 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1999029256	A1	19990617	WO 1998US26149	A	19981208	199935	B
AU 199918113	A	19990628	AU 199918113	A	19981208	199946	E
EP 1037569	A1	20000927	EP 1998962997	A	19981208	200048	E
			WO 1998US26149	A	19981208		
US 6325628	B1	20011204	US 199769088	P	19971210	200203	E
			WO 1998US26149	A	19981208		
			US 2000581062	A	20000607		

Priority Applications (no., kind, date): US 199769088 P 19971210; US 2000581062 A 20000607

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1999029256	A1	EN	22	9		
National Designated States,Original	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
AU 199918113	A	EN			Based on OPI patent	WO 1999029256
EP 1037569	A1	EN			PCT Application	WO 1998US26149
					Based on OPI patent	WO 1999029256
Regional Designated States,Original	CH DE FR GB IE IT LI					
US 6325628	B1	EN			Related to Provisional	US 199769088
					PCT Application	WO 1998US26149

					Based on OPI patent	WO 1999029256
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System for fitting temporary dental prosthesis in patients fitted with permanent dental implants ...Original Titles:TEMPORARY IMPLANT COMPONENTS, SYSTEM AND METHOD...

...Temporary **implant** components, system and method...

...TEMPORARY IMPLANT COMPONENTS, SYSTEM AND METHOD... **Alerting**

Abstract ...NOVELTY - The system uses a number of temporary **implants** (10), each having an integral abutment and a detachable plastic coping (30), as mountings for a temporary dental prosthesis (60). The temporary **implants** are fitted between or adjacent to permanent **implants** (2), and hold the **base** of the prosthesis clear of the permanent **implants**. DESCRIPTION - Each temporary **implant** is screwed into the jaw bone (1), and a **pin** (50) is screwed into its head. A temporary dental prosthesis is then by drilling oversize holes in a blank at the **pin** locations, determined using impression material. The **pins** are then removed, a plastic coping (30) is placed over the tapered head of each temporary **implant** and the **pins** are refitted. The temporary prosthesis is fitted over the **pins** and copings, and epoxy resin is injected in the oversize holes around them. Finally, any excess epoxy is trimmed off as it sets, ensuring that the prosthesis **base** is clear of the permanent **implants'** heads... USE - As a means of forming and **supporting** a temporary dental prosthesis above the heads of permanent **implants** while bone growth around them occurs... ADVANTAGE - The temporary dental prosthesis allows a patient with permanent **implants** to eat a solid and diversified diet from the day they are fitted, because it... drawing shows a cross-section through part of a temporary dental prosthesis where it is **supported** by an implanted abutment, and two permanent **implants**. ...2 Permanent **implant** ...10 Temporary **implant** with integral abutment...

...50 **Pin Title Terms** .../Index Terms/Additional Words: **IMPLANT Class Codes**

Original Publication Data by AuthorityArgentina**Publication No. ...Original**

Abstracts:prosthesis (60) which can be placed before, after or simultaneously with the placement of permanent **implants** is securely and **accurately** fixed to mounting assemblies (58). Each mounting assembly (58) has a combination **implant**/abutment member (10) **screwed** into a bore formed in the cortical bone with a smooth convex basal portion (12... of the bore. A coping (30) is received on the head (16) of the combined **implant**/abutment member (10) **and** retained there by a **pin** (50) having a **threaded** portion (56) received in a threaded bore (24). The copings (30) and **pins** (50) are received **in** oversized bores formed in a blank temporary prosthesis and resin is injected around the copings and **pins** to secure the **copings** to the prosthesis at locations corresponding to the positions of the combined **implant**/abutment members (10). ... prosthesis (60) which can be placed before, after or simultaneously with the placement of permanent **implant** i securely and accurately fixed to **mounting** assemblies (58). Each mounting assembly (58) has a combination **implant**/abutment member (10) screwed into a bore formed in the **cortical** bone with a smooth convex basal portion (12) received in a complimentary shaped recess formed... of the bore. A coping (30) is received on the head (16) of the combined **implant**/abutment member (10) and retained there by a **pin** (50) having a threaded portion (56) received in a **threaded** bore (24). The copings (30) and **pins** (50) are received **in** oversized bores formed in a blank temporary prosthesis and resin is

injected around the copings and **pins** to secure the copings to the prosthesis **at** locations corresponding to the positions of the combined **implant**/abutment members (10). prosthesis (60) which can be placed before, after or simultaneously with the placement of permanent **implants** is securely and accurately fixed to mounting assemblies (58). Each mounting assembly (58) has a combination **implant**/abutment member (10) screwed into a bore formed in the cortical bone with a smooth convex basal portion (12) **received** in a complimentary shaped recess formed at the entrance of the bore. A coping (30) is **received** on the head (16) of the combined **implant**/abutment **member** (10) **and retained** there by a **pin** (50) having a threaded portion (56) received in a threaded bore (24). The copings (30) and **pins** (50) are received in oversized bores formed in a blank **temporary** prosthesis and resin is injected around the copings **and pins** to secure the copings to the prosthesis at locations corresponding to the positions of the **combined implant**/abutment members (10). 60) pouvant se mettre en place avant, apres ou pendant la mise en place d'**implants** permanents, et qui se fixe surement et precisement a des structures de fixation (58). Chacun desdites structures comporte un element combine **implant**/butee (10) visse dans un alesage perce dans l'os cortical, et presentant une **base** convexe lisse (12) prenant **place** dans un evidement de forme complementaire forme a l'entree de l'alesage. Une chape (30) reposant sur la tete (16) **de** l'element combine **implant**/butee (10) et y est maintenu par une tige (50) **en** partie (56) filetee penetrant dans un alesage filete (24). Les chapes (30) et les tiges (50) rentrent dans des alesages surdimensionnees perces dans une ebauche temporaire de prothese, tandis qu'**on** injecte de la resine autour des chapes et des tiges pour fixer les chapes aux protheses en des points correspondant aux positions des elements combines **implants**/butees (10). **Claims:** A temporary medical **device** comprising a **support** member **having** a plurality of bores formed therethrough, a combined **implant**/abutment **member** having a **post** formed **with** bone **screw** threads **receivable** into a bore formed in a bone, the member having a head portion formed with... .. received on the coping receiving seating surface and extending into a respective bore of the **support** member **and** fixedly attached to the **support** member, **the** head portion extending above the bone a selected distance to space the **support** member **from** the bone.

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 20/3,K/2 (Item 2 from file: 350)
 DIALOG(R)File 350: Derwent WPIX
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0009312197 *Drawing available*
 WPI Acc no: 1999-243094/199920
 Related WPI Acc No: 1995-122714; 1997-511752; 1998-361497
 XRPX Acc No: N1999-180921
Top-loading, cross-link spinal stabilization implant system
 Patent Assignee: GELBARD S D (GELB-I)
 Inventor: GELBARD S D

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5888221	A	19990330	US 1992928263	A	19920811	199920	B
			US 1994241356	A	19940511		
			US 1997949804	A	19971014		

Priority Applications (no., kind, date): US 1992928263 A 19920811; US 1994241356 A 19940511; US 1997949804 A 19971014

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 5888221	A	EN	4	3	Division of application	US 1992928263
					Division of application	US 1994241356
					Division of patent	US 5397363

Top-loading, cross-link spinal stabilization implant system **Original Titles:** Spinal stabilization **implant** system. **Alerting Abstract ...NOVELTY** - The system utilizes a caudal facing hook (430) having a hook **base** (432) and an upper saddle shaped portion (434) with two projections having U-shaped side surfaces for direct attachment onto a **support rod** (442). A **nut** (446) having internal threads engages the hook body threads (436), forcing a beveled **support** plate (444) tightly against the **rod**, allowing an increase in the surface contact area. **USE** - For use in a surgical **implant** system for the stabilization of a human spine by fixation of the vertebra (claimed... ...432 hook **base**442 **support rod**444 **support** plate... ...446 **nut** **Title Terms** .../Index **Terms/Additional Words:** **IMPLANT**; **Class Codes** Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:** A surgical **implant** system for the **stabilization** of a human spine by fixation of the vertebra utilizing a stabilization cross-link spinal **implant** system. The system **utilizes** self-tapping **screws** having bifurcated protruding **members** to **support** an alignment **rod**, the protruding members **available** for placement of a fixed or variable traverse cross-link member that couples to the protruding members by use of threaded **nuts** corresponding to the **threaded** portion of the outer surface of the protruding members. The externally threaded coupling method can... **Claims:** A **device** for **use** in a surgical **implant** system **for** the stabilization of a human spine by **fixation** of the **vertebra**, said **device** comprising: **an attachment member** defined by **an upper** portion having at least two spaced-apart protruding members forming an inner surface saddle configured for receipt of at least one **rod** therein and a **lower** portion including a hook-shaped attachment flange, at least one of said protruding members having an outer threaded surface; a means for securing said attachment member to said **rod**; and a **support** plate having a raised portion contoured to **engage** an outer surface of said **rod**, said **support** plate being perforated to accept said protruding **members**; said **support** plate including flanges oriented orthogonal to a **central** axis of a said **rod**, said flanges cooperating with said means for **securement** to apply compressive force to said **rod** and said protruding members when said means **for**

securement is screwed onto said threaded surface; whereby a linking alcove is formed between said attachment members and said **rod**, and wherein said attachment flange is adapted to encircle a portion of one of said vertebra.

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20/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0008264043

WPI Acc no: 1997-372026/199734

Related WPI Acc No: 1995-402860; 1997-107536; 1997-153168; 1997-164468; 1997-234698; 1997-257678; 1997-362882; 1998-051439; 1998-085636; 1998-252922; 1999-044653; 1999-119993; 2000-571192; 2001-040452; 2001-290204; 2001-474848

XRAM Acc no: C1997-119794

XRPX Acc No: N1997-309009

New aliphatic polyoxa- ester(s) containing amino and/or amido groups - used in devices such as absorbable surgical devices, including burn dressings, hernia patches, medicated dressings, fascial substitutes, gauze, fabrics or sheets

Patent Assignee: ETHICON INC (ETHI)

Inventor: BEZWADA R S; JAMIOLKOWSKI D D

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5648088	A	19970715	US 1995399308	A	19950306	199734	B
			US 1995554011	A	19951106		
			US 1996611529	A	19960305		

Priority Applications (no., kind, date): US 1995399308 A 19950306; US 1995554011 A 19951106; US 1996611529 A 19960305

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 5648088	A	EN	12	0	C-I-P of application	US 1995399308
					C-I-P of application	US 1995554011
					C-I-P of patent	US 5464929

...used in devices such as absorbable surgical devices, including burn dressings, hernia patches, medicated dressings, fascial substitutes, gauze, fabrics or sheets

Alerting Abstract ...USE - (I) are used to make **devices** such as absorbable surgical devices, including burn dressings, hernia patches, medicated dressings, fascial

substitutes, gauze, fabrics, sheets, felts, sponges, gauze bandages, arterial graft bandages for skin surfaces, suture knot clips, **pins**, clamps, **screws**, plates, **clips**, staples, **hooks**, buttons, snaps, **bone** substitutes, intrauterine **devices**, tubes, surgical **instruments**, vascular **implants**, vascular **supports**, vertebral discs, artificial skin and filaments, preferably attached to needles. (I) may also be used as pharmaceutical carriers in a drug-delivery matrix; and as absorbable coatings for **devices** such as sutures or needles...

Documentation Abstract ...USE - (I) are used to make **devices** such as absorbable surgical **devices**, including burn dressings, hernia patches, medicated dressings, fascial substitutes, gauze, fabrics, sheets, felts, sponges, gauze bandages, arterial graft bandages for skin surfaces, suture knot clips, **pins**, clamps, **screws**, plates, **clips**, staples, **hooks**, buttons, snaps, **bone** substitutes, intrauterine **devices**, tubes, surgical **instruments**, vascular **implants**, vascular **supports**, vertebral discs, artificial skin and filaments, preferably attached to needles. (I) may also be used as pharmaceutical carriers in a drug-delivery matrix; and as absorbable coatings for **devices** such as sutures or needles... ..

ADVANTAGE - The polymer **blends** undergo gradual degradation upon contact with body fluids enabling concomitant release of contained drugs for... .. The catalyst is preferably a tin-**based** catalyst, e.g. stannous octoate, and is preferably present in the mixture at a mole... .. was heated under N₂ at 1 atmosphere, gradually increasing the temperature to 200(deg)C in about 32 hours. Water formed was collected. The reaction flask was heated gradually under reduced pressure.
Documentation Abstract Image Title Terms
.../Index Terms/Additional Words: **DEVICE**; **Class Codes** Original Publication Data by Authority Argentina **Publication No.** ...**Original Abstracts**: amido groups and blends thereof with other polymers that may be used to produce surgical **devices** such as sutures, **sutures** with attached needles, molded **devices**, and the like. **The** aliphatic polyoxaesters of the present invention have a first divalent repeating unit of formula I...

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20/3,K/4 (Item 4 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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0007903041 *Drawing available*

WPI Acc no: 1996-321596/199632

XRPX Acc No: N1996-270688

Dental implant set in jaw-bone which supports crown or similar - has removable anchorage base with at least one counter-shoulder complementary to implant shoulder, and with adhesive surfaces on vertical outer walls

Patent Assignee: INST STRAUMANN AG (STRA)

Inventor: DIEDRICH P; GLATZMAIER J; HUESKENS C; HUSKENS C;

MUNDWILER U; SUTTER F

Patent Family (11 patents, 24 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1996019946	A1	19960704	WO 1995CH303	A	19951222	199632	B

AU 199642512	A	19960719	AU 199642512	A	19951222	199647	E
EP 798991	A1	19971008	EP 1995940930	A	19951222	199745	E
			WO 1995CH303	A	19951222		
BR 199510361	A	19971223	BR 199510361	A	19951222	199806	E
			WO 1995CH303	A	19951222		
EP 798991	B1	19980729	EP 1995940930	A	19951222	199834	E
			WO 1995CH303	A	19951222		
DE 59503024	G	19980903	DE 59503024	A	19951222	199841	E
			EP 1995940930	A	19951222		
			WO 1995CH303	A	19951222		
ES 2119502	T3	19981001	EP 1995940930	A	19951222	199848	E
MX 199704648	A1	19970901	MX 19974648	A	19970620	199850	E
US 5836768	A	19981117	WO 1995CH303	A	19951222	199902	E
			US 1997860331	A	19970902		
JP 10511286	W	19981104	WO 1995CH303	A	19951222	199903	E
			JP 1996520099	A	19951222		
KR 1998700820	A	19980430	WO 1995CH303	A	19951222	199914	E
			KR 1997704286	A	19970621		

Priority Applications (no., kind, date): CH 19943921 A 19941223; WO 1995CH303 A 19951222

Patent Details							
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes		
WO 1996019946	A1	DE	28	5			
National Designated States,Original	AU BR CA JP KR MX NZ US						
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE						
AU 199642512	A	EN			Based on OPI patent	WO 1996019946	
EP 798991	A1	DE			PCT Application	WO 1995CH303	
					Based on OPI patent	WO 1996019946	
Regional Designated States,Original	AT BE CH DE DK ES FR GB IE IT LI LU NL PT SE						
BR 199510361	A	PT			PCT Application	WO 1995CH303	
					Based on OPI patent	WO 1996019946	

EP 798991	B1	DE		PCT Application	WO 1995CH303
				Based on OPI patent	WO 1996019946
Regional Designated States,Original	AT BE CH DE DK ES FR GB IE IT LI LU NL PT SE				
DE 59503024	G	DE		Application	EP 1995940930
				PCT Application	WO 1995CH303
				Based on OPI patent	EP 798991
				Based on OPI patent	WO 1996019946
ES 2119502	T3	ES		Application	EP 1995940930
				Based on OPI patent	EP 798991
US 5836768	A	EN		PCT Application	WO 1995CH303
				Based on OPI patent	WO 1996019946
JP 10511286	W	JA	31	PCT Application	WO 1995CH303
				Based on OPI patent	WO 1996019946
KR 1998700820	A	KO		PCT Application	WO 1995CH303
				Based on OPI patent	WO 1996019946

Dental implant set in jaw-bone which supports crown or similar... ..has removable anchorage base with at least one counter-shoulder complementary to implant shoulder, and with adhesive surfaces on vertical outer walls ...Original

Titles:FASTENING SYSTEM FOR MOUNTING AN ORTHODONTIC **DEVICE** ON A DENTAL **IMPLANT**DISPOSITIF DE FIXATION POUR APPAREILLAGES ORTHODONTIQUES SUR UN **IMPLANT** DENTAIRE... ..FASTENING SYSTEM FOR MOUNTING AN ORTHODONTIC **DEVICE** ON A DENTAL **IMPLANT**DISPOSITIF DE FIXATION POUR APPAREILLAGES ORTHODONTIQUES SUR UN **IMPLANT** DENTAIRE... ..Fastening **device** for fixing orthodontic **apparatuses** on a dental **implant**.FASTENING SYSTEM FOR MOUNTING AN ORTHODONTIC **DEVICE** ON A DENTAL **IMPLANT** **Alerting Abstract** ...The one or multi-part **implant** (10) set in the jawbone (1) has a shoulder (11) as **support** for a tooth crown or similar. The **implant** head (14) or the applied trans-mucosal unit at least approximately extends out of the soft tissue (2). On the shoulder of the **implant** is fitted an anchorage **base** (11) with at least one counter shoulder (42) complementary to the **implant** shoulder. The anchorage **base** has at least one adhesive surface (31). The **support** plate (5) of a bracket is fixable on this adhesive surface, by means of a... ..ADVANTAGE - The arrangement provides for a practical fixture for an orthodontic **device** on a bi-functional dental **implant**. Work and material inputs are reduced. **Title Terms** .../Index

Terms/Additional Words: **IMPLANT**;**SUPPORT**;**BASE**; **Class Codes**

Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:**A dental **implant** (10) set in **the** jawbone (1) primarily as **support** for a crown **or** other

supra-construction is fitted with a removable anchorage **base** (30) for prior **orthodontic** therapy. The vertical outer walls (31) of the anchorage **base** (30) are designed as adhesive surfaces. A bracket (50) can be affixed to a selected adhesive surface (31) by means of a bonding layer (60). Parts (70, 71) of the orthodontic **device** are attached to **this** bracket (50). The anchorage **base** (30) is screwed **onto** the **implant** (10) with an **occlusal screw** (80) and can **be** sensitively set to a desired rotary position. The preferably eccentric bore (37) is conducive to adjustment for spatial relations and the orthodontic function. The anchorage **base** (30) can be **used** with a wide range of **implants** (10) as well as brackets (50). Once the corrective work on the tooth structure has been completed, the reusable titanium anchorage **base** (30) can be **removed** from the **implant** (10) in a **simple** manner. The preferred gluing effectively eliminates any galvanic corrosion between the special steel bracket (50) and the anchorage **base** (30). ... For a dental **implant** (10) which can be inserted into the jaw **bone** (1) and which is intended principally as a **support** for a crown or another superstructure, an anchoring **base** (30) which can be fitted releasably on **the implant** (10) was created for the purpose of preliminary **orthodontic** treatment. The vertical outer sides of the anchoring **base** (30) are designed as fastening surfaces (31). A **bracket** (50) can be fixed on a selected fastening surface (31) by means of a bonding layer (60). Orthodontic **apparatus** components (70, 71) are fastened on this bracket (**50**). The anchoring **base** (30) is screwed onto the **implant** (10) using an **occlusal screw** (80) and in **the** process can be locked **in** a finely adjustable position of rotation. The eccentrically arranged bore (37) promotes adaptation to the spatial conditions and to the orthodontic task. The anchoring **base** (30) is suitable for a wide range of **types** of **implants** (10) and brackets (50). Once the correction of **the** positioning of the teeth is complete, the anchoring **base** (30), which is made of titanium and is **re**-usable, can be removed in a simple manner from the **implant** (10). By means of the preferred adhesive bonding **connection**, galvanic corrosion between the stainless steel bracket (50) and the anchoring **base** (30) is substantially ruled out. ... A dental **implant** (10) set in the jawbone (1) primarily as **support** for a crown or other supra-construction is fitted **with** a removable anchorage **base** (30) for prior orthodontic **therapy**. The vertical outer walls (31) of the anchorage **base** (30) are designed as **adhesive** surfaces. A bracket (50) can be affixed to a selected adhesive surface (31) **by** means of a bonding layer (60). Parts (70, 71) of the orthodontic **device** are attached to this bracket (50). The anchorage **base** (30) is screwed onto the **implant** (10) with an **occlusal screw** (80) and can be sensitively set to **a** desired rotary position. The preferably **eccentric** bore (37) is conducive **to** adjustment for spatial relations and the orthodontic function. The anchorage **base** (30) can be used with a wide range of **implants** (10) as well as brackets (50). Once the **corrective** work on the tooth structure has been completed, the **reusable** titanium anchorage **base** (30) can be removed from the **implant** (10) in a simple manner. The preferred gluing effectively eliminates any **galvanic** corrosion between the special steel bracket (**50**) and the anchorage **base** (30). **Claims:** The one or multi-part **implant** (10) set in the jawbone (1) has a shoulder (11) as **support** for a tooth crown or similar. The **implant** head (14) or the applied transmucosal unit at least approximately extends out of the soft tissue (2). On the shoulder of the **implant** is fitted an anchorage **base** (11) with at least one counter shoulder (42) complementary to the **implant** shoulder. The anchorage **base** has at least one adhesive surface (31). The **support** plate (5) of a bracket is fixable on this adhesive surface, by

means of a... ... 1. Fastening **device** on a dental **implant** for the fixing of orthodontic **apparatus** components and the subsequent use of the single-part or multi-part **implant** (10), fitted in the **jaw bone** (1) and having an **implant** shoulder (11), as a **support** for a crown or another superstructure, in **which**

a) the **implant** head (14) or the attached transmucosal unit **protruding** at least to some **extent** from the soft tissue (2);

b) at least one **apparatus** component (70,71) can be fixed on the bracket (50);

c) the anchoring **base** (30) has a vertically continuous bore (37);

d) the anchoring **base** (30) can be fixed on the **implant** (10) by means of an occlusal **screw** (80) which is guided **through** the bore (37) and which engages directly or indirectly into the **implant** (10); and

e) polygons (21,40) of male and female configuration, respectively, are **alternatingly** present, directly or indirectly, on the **implant** (10) and on the anchoring **base** (30) and engage with **one** another with positive locking, so that the anchoring **base** (30) can be placed on the **implant** (10) in various stable positions of **rotation**, characterized in that

f) an **anchoring base** (30) which can be fitted on the **implant** shoulder (11) of the **implant** (10) is provided with at least **one** adhesion surface (31-34);

g) this adhesion surface (31-34) serves for fastening of a **support** plate (51) of a bracket (50); and

h) the **bore** (37) is eccentrically provided **in** such a way that different distances from the bore (37) to the adhesion surfaces (31-34) are obtained in a gradation. Fastening **device** on a dental **implant** for the fixing of orthodontic **apparatus** components and the subsequent use of the **implant**, fitted in the jaw bone and having an **implant** shoulder, as a **support** for a superstructure, in which:a) the **implant** head protruding at least to some **extent** from the soft **tissue**, andb) an anchoring **base which** can be fitted on the **implant** shoulder **of the implant** is provided with at least one **fastening** surface, andc) **this** fastening surface serves for fastening of a **support** plate **of** a bracket, andd) at least one **apparatus** component can be fixed on the bracket, ande) the anchoring **base** has a vertically continuous **bore**, andf) the **anchoring base** can be fixed on the **implant** by means of an occlusal **screw** which is guided through the bore and **which** engages into the **implant**, andg) polygons of male and female **configuration**, respectively, are alternatingly present on the **implant** and on the anchoring **base** and **engage** with one another with positive locking, so that the anchoring **base can** be placed on the **implant in** various stable positions of rotation, **characterized** in that,h) the bore is eccentrically provided in such a **way** that different distances from the bore to the fastening surfaces are obtained in a gradation.

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20/3,K/5 (Item 5 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0007547002 *Drawing available*

WPI Acc no: 1996-161396/199617

XRPX Acc No: N1996-135214

Intra-ossal implant for fixed replacement tooth - has intermediate component of metal and plastics enclosing blind hole in distance sleeve with compressible and flexible intermediate frame

Patent Assignee: ALTATEC MEDIZINTECHNISCHE ELEMENTE GMBH & CO KG (ALTA-N); EBERLE MEDIZINTECHNISCHE ELEMENTE GMBH (EBER-N); IMZ FERTIGUNGS & VERTRIEBESGES (IMZF-N); IMZ FERTIGUNGS & VERTRIEBS GES (IMZF-N); IMZ FERTIGUNGS & VERTRIEBSGESELLSCHAFT (IMZF-N)

Inventor: DUERR W; DURR W; KIRSCH A

Patent Family (8 patents, 59 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 702941	A1	19960327	EP 1995113530	A	19950829	199617	B
DE 4433671	C1	19960328	DE 4433671	A	19940921	199617	E
WO 1996009016	A1	19960328	WO 1995DE1159	A	19950829	199619	E
AU 199532530	A	19960409	AU 199532530	A	19950829	199629	E
BR 199509152	A	19971014	BR 19959152	A	19950829	199747	E
			WO 1995DE1159	A	19950829		
US 5678995	A	19971021	US 1995531279	A	19950920	199748	E
JP 10507658	W	19980728	WO 1995DE1159	A	19950829	199840	E
			JP 1996510502	A	19950829		
CN 1158557	A	19970903	CN 1995195217	A	19950829	200140	E

Priority Applications (no., kind, date): DE 4433671 A 19940921

Patent Details					
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
EP 702941	A1	DE	11	8	
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IE IT LI MC NL PT SE				
WO 1996009016	A1	DE	24	8	
National Designated States,Original	AM AU BB BG BR BY CA CN CZ EE FI GE HU JP KE KG KP KR KZ LK LR LT LV MD MG MN MW MX NO NZ PL RO RU SD SK TJ TT UA UG UZ VN				
Regional Designated States,Original	KE MW OA SD SZ UG				
AU 199532530	A	EN			Based on OPI patent WO 1996009016

BR 199509152	A	PT			PCT Application	WO 1995DE1159
					Based on OPI patent	WO 1996009016
US 5678995	A	EN	10	8		
JP 10507658	W	JA	22		PCT Application	WO 1995DE1159
					Based on OPI patent	WO 1996009016

Intra-ossal implant for fixed replacement tooth... ...**Original Titles:**Endosteal **implant** for dental prosthesis... ...**Implant** intra-osseux pour prothese dentaire... ...Enossal **implant** for tooth replacement... ...**ENDOSTEAL IMPLANT FOR A DENTAL PROSTHESIS Alerting Abstract** ...The **implant** has an implantable cylindrical metal body with a blind tapped hole open towards the tooth and into which a metal distance sleeve **screws**, this being closed at its end furthest from the tooth, and an annular shoulder at... ...to the sleeve by an intermediate component of elastic material such as plastics. A metal **post** forming a fixing **screw** engages in the blind hole and presses a surface on the tooth against a shoulder... ...**ADVANTAGE** - The **implant** is simple to produce and forms a reliable elastic damped tooth mounting under axial and... **Title Terms** /Index Terms/Additional Words: **IMPLANT**; **Class Codes** Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:**Intra-ossal **implant** for fixed replacement **tooth**

The **implant** has an implantable cylindrical metal **body** with a blind tapped hole open towards the tooth and into which a metal distance sleeve **screws**, this being closed at its **end** furthest from the tooth, and an annular shoulder at the open end bearing against the... ... to the sleeve by an intermediate component of elastic material such as plastics. A metal **post** forming a fixing **screw** engages **in** the blind hole **and** presses a surface on the tooth against a shoulder on the component furthest from the... ... An enossal **implant** includes a **base** member, a one-piece **spacer member** and **fastening** head **which** has a **skeleton** structure composed of metal **and plastic** material. **The spacer** sleeve has a **blind** bore with threads in the fastening head portion **for** receiving a threaded **implant post**. The skeleton structure has cavities in a metal body filled with **an elastic** plastic material to enable the **spacer** sleeve to be compressed in an axial direction and also to bend **in** response to bending stresses... ... An endosteal **implant** for a fixed dental prosthesis is disclosed. It comprises an implantable cylindrical foundation element (57) made of metal, a metal **spacer** sleeve (12) which can be screwed into an internally threaded blind bore (56) in the foundation element, the blind bore being open **towards** the dental prosthesis; the **spacer** sleeve is closed at the end away from the dental prosthesis, is in contact via an annular ledge (20) with the end **face** of the foundation element facing the dental prosthesis and, from the annular ledge towards the... ... cylindrical extension region (22), has the same outer diameter as the foundation element (57). The **implant** also has an attachment head (42) for the dental prosthesis which can be connected to the **spacer** sleeve (12) by an intermediate **element** (24) provided with elastic material such as plastic or the like, and a metal **implant** abutment **in** the form of an anchoring **screw** (58) which can be screwed into an internally threaded pocket bore (46) in the **spacer** sleeve, said pocket bore being open towards **the** dental prosthesis by pressing a bearing surface of the

dental prosthesis which faces the **intermediate** element onto a **supporting** ledge of the intermediate element facing away from the **spacer** sleeve (12). The intermediate element (24) is provided with a metal-plastic **device** which surrounds the pocket bore of the **spacer** sleeve **substantially** concentrically; said intermediate element has an intermediate element frame which is substantially **compressible** along the **spacer** sleeve's longitudinal central **axis** and, when subjected to bending strain, can also undergo excursion at right angles to said axis, and **which** is formed from metal in one piece with the extension region and the attachment headpocket bore (46) of the **spacer** sleeve (12) is provided with the internal thread (48) only in the region of the attachment head (42). ...**Claims:**In an enossal **implant** for a firmly-seated tooth replacement having an implantable, cylindrical **base** member of metal with an end face having a blind bore provided with internal threads, a **spacer** sleeve of metal that has an internal bore with a threaded portion open toward the tooth replacement and being closed at an end face away from the tooth replacement, said **spacer** sleeve having a cylindrical extension region with the same outside **diameter** as the **base** member and forming an annular shoulder pressing **against** the end face of the **base** member, a fastening head with a seating surface for the **tooth** replacement, and a fastening **screw** for holding a tooth replacement on the seating surface as the **screw** is threaded into the threaded portion of the internal bore of the **spacer sleeve**, the improvements comprising the fastening head being a portion of the **spacer sleeve** **and** at least one planar cavity extending transverse to a longitudinal axis of the **spacer sleeve** to **form a skeleton** structure between the cylindrical extension region and the fastening head, **an** elastic plastic material filling up said cavity, said threaded portion being **provided** only in said fastening head so that the **spacer** sleeve is a **combined** metal plastic member capable of being compressed in the direction of the **longitudinal** axis of the **spacer** sleeve and capable of excursion perpendicular to the longitudinal axis given **bending** stresses applied to said fastening **screw**.>

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20/3,K/6 (Item 6 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0007081717 *Drawing available*

WPI Acc no: 1995-106636/199514

Related WPI Acc No: 1995-106633; 1995-106635; 1995-106634

XRPX Acc No: N1995-084386

Ancillary equipment for correcting spinal deformities - comprises frame with parallel lengthwise rails along which adjustable vertebral correctors are movable so their tips engage vertebrae

Patent Assignee: FAIRANT P (FAIR-I); FAIRANT P H (FAIR-I); MARTIN J (MART-I); MARTIN J R (MART-I)

Inventor: FAIRANT P H; MARTIN J; MARTIN J R

Patent Family (7 patents, 56 countries)

Patent Number	Kind	Date	Application	Kind	Date	Update	Type
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			Number				
WO 1995005786	A1	19950302	WO 1994FR1021	A	19940823	199514	B
AU 199475399	A	19950321	AU 199475399	A	19940823	199526	E
FR 2722393	A1	19960119	FR 19948794	A	19940715	199611	E
EP 722298	A1	19960724	EP 1994925525	A	19940823	199634	E
			WO 1994FR1021	A	19940823		
US 5797910	A	19980825	WO 1994FR1021	A	19940823	199841	E
			US 1996605038	A	19960227		
EP 722298	B1	19991103	EP 1994925525	A	19940823	199951	E
			WO 1994FR1021	A	19940823		
DE 69421544	E	19991209	DE 69421544	A	19940823	200004	E
			EP 1994925525	A	19940823		
			WO 1994FR1021	A	19940823		

Priority Applications (no., kind, date): FR 199310291 A 19930827; FR 19941440 A 19940207; FR 19948794 A 19940715

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1995005786	A1	FR	32	7		
National Designated States,Original	AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KP KR KZ LK LU MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US VN					
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE					
AU 199475399	A	EN			Based on OPI patent	WO 1995005786
EP 722298	A1	FR	1		PCT Application	WO 1994FR1021
					Based on OPI patent	WO 1995005786
Regional Designated States,Original	AT BE CH DE DK ES FR GB IT LI NL PT SE					
US 5797910	A	EN			PCT Application	WO 1994FR1021
					Based on OPI patent	WO 1995005786
EP 722298	B1	FR			PCT Application	WO 1994FR1021
					Based on OPI patent	WO 1995005786
Regional	AT BE CH DE DK ES FR GB IT LI NL PT SE					

Designated States,Original						
DE 69421544	E	DE			Application	EP 1994925525
					PCT Application	WO 1994FR1021
					Based on OPI patent	EP 722298
					Based on OPI patent	WO 1995005786

Alerting Abstract ...The equipment consists of a **support** (1) with parallel lengthwise rails (3) along which adjustable corrector units (4a-f;4a'-f... ..The **support** is in the form of a frame with two short sides at top and bottom... ..receive the corrector units. Each corrector unit has control handles (21a,22a, etc.) for its **rods** which engage with and adjust the positions of the vertebrae... Original Publication Data by AuthorityArgentina**Publication No. ...Original Abstracts:**and/or the forces exerted on the vertebrae before and during the positioning of spinal **implants**. The equipment includes at least two engagement ends (6a, 6b, 6c,... and/or 6a', 6b', 6c... .. while at the same time engaging the parallel longitudinal rails (3) of a frame-like **support** (1) via corresponding corrective branches (4a, 4b, 4c,... and/or 4a', 4b', 4c',...) and a removable **base** (5) of said engagement ends, and further includes members (13, 17, 43, 65) for adjusting and... .. and/or the forces exerted on the vertebrae before and during the positioning of spinal **implants**. The equipment **includes** at least two engagement ends (6a, 6b, 6c,. .. and/or 6aprime, 6bprime, 6cprime,. ..) for engaging... .. while at the same time engaging the parallel longitudinal rails (3) of a frame-like **support** (1) via **corresponding** corrective branches (4a, 4b, 4c,. .. and/or 4a'prime, 4b'prime, 4c'prime,. ..) and a removable **base** (5) of **said** engagement ends, and further includes members (13, 17, 43, 65) for adjusting and locking the... .. and/or the forces exerted on the vertebrae before and during the positioning of spinal **implants**. The equipment includes at **least** two engagement ends (6a, 6b, 6c,... and/or 6a', 6b', 6c',...) for engaging one or... .. while at the same time engaging the parallel longitudinal rails (3) of a frame-like **support** (1) via corresponding corrective **branches** (4a, 4b, 4c,... and/or 4a', 4b', 4c',...) and a removable **base** (5) of said engagement **ends**, and further includes members (13, 17, 43, 65) for adjusting and locking the engagement ends... **Claims:**The equipment consists of a **support** (1) with parallel lengthwise rails (3) along which adjustable corrector units (4a-f;4a'-f... .. The **support** is in the form of a frame with two short sides at top and bottom... .. receive the corrector units. Each corrector unit has control handles (21a,22a, etc.) for its **rods** which engage with and adjust the positions of the vertebrae... .. 1. Ancillary **device** allowing to apply and maintain **stresses** on a portion of the spinal column in view of correcting and/or maintaining the... .. or the stresses on the vertebrae before and during the placing of an implanted rachial **instrumentation**, comprising at least two action **ends** (6) intended for cooperating respectively with at least two separate vertebrae while resting with the corresponding correction branch (4) and the detachable **base** (5) thereof on longitudinal and **parallel** rails (3) of a frame-shaped **support** (1), as well as means (13, 17, 43, 65) for altering and maintaining the relative positions of the action ends (6... .. A spinal operative equipment comprising: a frame **support** including

longitudinal bars for extending along a spinal column, corrective **devices slidably** mounted on said longitudinal bars, each of **said** corrective **devices** comprising: a **base** for transversely **attaching** said corrective **device** to said frame while **allowing** free longitudinal sliding movements **of** said corrective **devices**, a corrective **arm** resting on said **base** and having an operational end for engagement with **a** corresponding side of a vertebra, a horizontal frontal **control rod** having first means for adjustment of said operational end with respect to said **base** in a horizontal frontal direction **orthogonal** to said longitudinal bars, said horizontal frontal control **rod** being arranged to maintain **said** operational end in said horizontal frontal direction after adjustment, a horizontal sagittal control **rod having** second means for adjustment of said operational end with respect to said **base** in a horizontal sagittal direction orthogonal to **said** longitudinal bars, said horizontal sagittal control **rod** being adapted to maintain said operational **end** in said horizontal sagittal direction after adjustment.

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20/3,K/7 (Item 7 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0005471955 *Drawing available*

WPI Acc no: 1991-073275/199110

XRPX Acc No: N1991-056700

Surgical implant for spinal column straightening - has pairs of screwed implants inserted in each vertebra, connected by rigid shafts secured by nuts and adjusted by threaded rod

Patent Assignee: JBS (JBSJ-N); JBS LTD CO (JBSJ-N); JBS SA (JBSJ-N)

Inventor: MARNAY T

Patent Family (10 patents, 31 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1991001691	A	19910221	WO 1990FR539	A	19900713	199110	B
FR 2650173	A	19910201	FR 198910178	A	19890726	199112	E
AU 199060491	A	19910311				199123	E
EP 436697	A	19910717	EP 1990911299	A	19900713	199129	E
AU 638265	B	19930624	AU 199060491	A	19900713	199332	E
US 5261913	A	19931116	WO 1990FR539	A	19900713	199347	E
			US 1991671692	A	19910326		
			US 1991935452	A	19910326		
EP 436697	B1	19940713	EP 1990911299	A	19900713	199427	E
			WO 1990FR539	A	19900713		

DE 69010650	E	19940818	DE 69010650	A	19900713	199432	E
			EP 1990911299	A	19900713		
			WO 1990FR539	A	19900713		
ES 2060190	T3	19941116	EP 1990911299	A	19900713	199501	E
KR 179649	B1	19990501	KR 1991700313	A	19910325	200051	E

Priority Applications (no., kind, date): FR 198910178 A 19890726

Patent Details							
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes		
WO 1991001691	A	EN					
National Designated States,Original	AU BB BG BR CA FI HU JP KP KR LK MC MG MW NO RO SD SU US						
Regional Designated States,Original	AT BE CH DE DK ES FR GB IT LU NL OA SE						
EP 436697	A	EN					
Regional Designated States,Original	AT BE CH DE ES FR GB IT LI LU NL SE						
AU 638265	B	EN			Previously issued patent	AU 9060491	
					Based on OPI patent	WO 1991001691	
US 5261913	A	EN	11	22	PCT Application	WO 1990FR539	
					Continuation of application	US 1991671692	
					Based on OPI patent	WO 1991001691	
EP 436697	B1	FR	16	22	PCT Application	WO 1990FR539	
					Based on OPI patent	WO 1991001691	
Regional Designated States,Original	AT BE CH DE DK ES FR GB IT LI LU NL SE						
DE 69010650	E	DE			Application	EP 1990911299	
					PCT Application	WO 1990FR539	
					Based on OPI patent	EP 436697	
					Based on OPI patent	WO 1991001691	
ES 2060190	T3	ES			Application	EP 1990911299	
					Based on OPI patent	EP 436697	

Surgical implant for spinal column straightening... ..has pairs of screwed implants inserted in each vertebra, connected by rigid shafts secured by nuts and adjusted by threaded rod ...Original Titles:DEVICE FOR STRAIGHTENING, SECURING, COMPRESSING AND ELONGATING THE SPINAL COLUMN... ..DEVICE FOR STRAIGHTENING, SECURING, COMPRESSING AND ELONGATING THE SPINAL COLUMN... ..Device for straightening, securing, compressing and elongating the spinal column... ..DEVICE FOR STRAIGHTENING, SECURING, COMPRESSING AND ELONGATING THE SPINAL COLUMN Alerting Abstract

...The **device** uses at least two shafts to connect **screw** or **hook implants** (10) inserted in the **spinal** bones, engaging in grooves formed perpendicular to the **implant** axes. The sides (111,112) of the grooves may be deformed towards one another by **screw** attachment of a conical **nut** (30) to a threaded portion (114) of the **implant** head... ..The shafts are secured in the **implant** head grooves by engagement with the **nuts**. A threaded transverse **rod** positions the shafts correctly by means of four engaging jaws, one of which is secured to the end of the **rod** while the remaining three are adjustably movable along the **rod** by a movable threaded **nut**. **Equivalent Alerting Abstract** ...The **device** comprises spine engaging member including a body having a groove having a bottom and two sides, the groove receiving the spine straightening and shoring **rod**. It has a spine straightening and shoring **rod**. It also has a but having a threaded conical bore and a clamping face... ..The **nut** is threadable onto the body thereby clamping the spine straightening and shoring **rod** between the groove sides by deforming the sides of the groove towards the spine straightening and shoring **rod** and also clamping the spine straightening and shoring **rod** between the clamping face and the groove bottom. The spine engaging member further includes a **screw** projecting from the body... **Technology Focus Title Terms** .../Index Terms/Additional Words: **IMPLANT**;**SCREW**;**NUT**;**ROD** Class Codes Original Publication Data by

Authority Argentina**Publication No. Original Abstracts:**The invention relates to a process and **device** for securing, elongating and compressing a spinal column, of simple design, which is easy and precise in use, leaving no projecting part. The process of the invention for straightening and **supporting** a spinal column **consists** in **securing** screwed **implants** (10) or **hooks on** either side of the curvature of the **spine** and interlinking them by at least two **rods** (20, 21) designed to act as struts; said **rods** (20, 21) are **introduced** longitudinally into grooves (113) perpendicular to the **screw** (120) fitted in **the** body (110) of the **implants** (10) or **hooks and** then fixed in the **base** of the grooves (113) by crimping resulting from the deformation of the sides of the groove (113) by the closing of its sides; said deformation is obtained via a conically-threaded **nut** (30) and a **cylindrical** male thread cut around the body (110) of the **implants** (10). Application:straightening **and supporting** the spinal column **in** the event of scoliosis or fracture, for example... .. The invention relates to a process and **device** for securing, elongating and compressing a spinal column, of simple design, which is easy and precise in use, leaving no projecting part. The process of the invention for straightening and **supporting** a spinal column consists in securing screwed **implants** (10) or **hooks** on either side of the **curvature** of the spin and interlinking them by at least two **rods** (20,21) designed to act as struts; said

rods (20,21) are introduced longitudinally into grooves (113) **perpendicular** to the **screw** (120) fitted in the body (110) of the **implants** (10) or hooks and then fixed in the **base** of the grooves (113) by crimping resulting from **the** deformation of the sides of the groove (113) by the closing of its sides; said deformation is obtained via a conically-threaded **nut** (30) and a cylindrical male thread cut around **the** body (110) of the **implants** (10). Application: straightening and **supporting** the spinal column **in** the event of scoliosis **or** fracture, for example... ... The invention relates to a process and **device** for securing, elongating and compressing a spinal column, of simple design, which is **easy** and precise in use, leaving no projecting part. The process of the invention for straightening and **supporting** a spinal column consists in securing screwed **implants** (10) or **hooks** on either **side** of **the** curvature of the **spine** and **interlinking** them by **at** least two **rods** (20, 21) designed to act as struts; said **rods** (20, 21) are introduced **longitudinally** into grooves (113) perpendicular to the **screw** (120) **fitted** in the body (110) of the **implants** (10) or hooks and **then** fixed in the **base** of the grooves (113) **by** crimping resulting from the deformation of the sides **of** the groove (113) by the closing of its sides; said deformation is obtained via a conically-threaded **nut** (30) and a cylindrical male thread cut around the body (110) of the **implants** (10). Application: straightening and **supporting** the spinal column in the event of scoliosis **or** fracture, for example.

...**Claims:**verbunden sind, die ueber Anschluss- und Verbindungselemente untereinander zusammengehalten werden, wobei diese Stangen laengs in **Nuten** (113, **152**) eingefuehrt werden, die lotrecht zur Schraube verlaufen und zu diesem Zweck im Koerper der Implantate oder Haken vorgesehen sind, und dann blockiert am Grund der **Nuten** blockiert **sind**, wobei ein Zusammenhalt zwischen den Stangen ueber eine Gewindetaverse (40) erreicht wird, dadurch gekennzeichnet, dass... ... 111, 112) der in den Koerpern (110, 150) der Implantate (10) oder Haken (15) vorgesehenen **Nut** zum **Erreichen** der Klemmung der Stange (20 bzw. 21) am Gund der **Nut** ueber **ein** System mit Zylinderschraube (114) und Mutter mit konischem Gewinde (30) erreicht wird,dass der Zusammenhalt... ... 110) des Kopfes eines Implantats (10) besitzt, von seiner Stange getrennt oder nicht, und eine **Nut** derselben **Breite** (801), die ebenfalls das Durchfuehren des Koerpers (110) des Kopfes eines Implantats (10) und von... ... 1. **Device** for straightening and **supporting** a **rachis**, consisting of screwed-in **implants** (10) or hooks (15) connected **by** at least two **rods** (20, 21) fixed to each **other** by means of joining and connecting members; the said **rods** being inserted longitudinally into recesses (**113**, **152**) perpendicular to the **screw** and provided for this purpose **in** the body of the **implants** or hooks, and then locked **in** the bottom of the recesses, the fixing of the **rods** to each other being obtained **by** means of a threaded cross piece (40), characterised in that a deformation caused by bringing... ... the sides (111, 112) of the recess produced in the body (110, 150) of the **implants** (10) or of the hooks (**15**), in order to obtain the locking of the **rod** (20 or 21) in the **bottom** of the recess, is obtained by means of a system consisting of a cylindrical **screw** (114) and a **nut** with **a** tapered **screw** thread (**30**),in that the **fixing** of the **rod** (20 or 21) with respect **to** the threaded cross piece (40) is obtained by means of four jaws (50, 51, 52... ... three others (51, 52, 53) on the cross piece being adjustable by means of a **nut** (60) held in a housing (**531**), the rotation of which is obtained by means of a system consisting of a gear (61) and worm (70), in that the fixing of the **screws** (120) of the **implants** (10) **is** obtained by means **of** an angular thread (121) at an angle of 45(deg), one of the edges of which (122), situated behind with respect to

the shank of the **screw** (120), forms a right angle **with** respect to the **rod** of the said **screw** (120), **in** that components for **the** longitudinal connection of sections of **rods** (201, 202) consist of a **knurled** plate (80) having two orifices for the body (110) of the head of the **implants** (10) to pass through, whether **or** not the head is separate from its **screw** (120), on which is mounted **a nut** (30) which provides the locking **of** the assembly, in that components for the lateral connection of the **rods** (21, 22) consist of a **plate** (800) having an orifice for the body (110) of the head of an **implant** (10) to pass through, whether **or** not the head is separate from its **rod**, and a recess of the **same** width (801) also enabling the body (110) of the head of an **implant** (10) and **nuts** (30) to **pass** through, locking **the** assembly in position, and in that a threaded **rod** (90) pulling two hooks (15, **16**) towards each other is mounted in threaded orifices having the same thread pitch, formed in... ... A **device** for straightening and shoring a spine, comprising: spine engaging **means** including a body having a groove having a bottom and two sides, said groove receiving said spine straightening and shoring **rod**; and a spine straightening and shoring **rod**; a **nut having** a threaded conical bore and a **clamping** face, **said nut** being threadable onto said body thereby clamping said spine **straightening** and shoring **rod** between said groove sides by deforming said sides of **the** groove towards the spine straightening and shoring **rod** and also clamping said spine straightening and shoring **rod between** said clamping face and said groove bottom.

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20/3,K/8 (Item 8 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0004449893

WPI Acc no: 1988-190545/198827

XRAM Acc no: C1988-085123

XRPX Acc No: N1988-145616

Implantable device with hydrophobic component, esp. coating - with hydrophobicity at least that of lactide, to promote cellular regeneration and growth, esp. useful as nerve guidance channels

Patent Assignee: ALLIED CORP (ALLC); US SURGICAL CORP (USSU)

Inventor: CHIU T; CHIU T H; LARGMAN T; MARES F; TANG R T; TANG R T H

Patent Family (7 patents, 11 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1988004557	A	19880630	WO 1987US3245	A	19871207	198827	B
EP 326583	A	19890809	EP 1988900432	A	19871207	198932	E
JP 1503204	W	19891102	JP 1988500717	A	19871207	198950	E
EP 326583	B	19911023	EP 1987900432	A	19871207	199143	E
DE 3774132	G	19911128				199149	E

JP 1993053141	B	19930809	WO 1987US3245	A	19871207	199334	E
			JP 1988500717	A	19871207		
CA 1328227	C	19940405	CA 554457	A	19871216	199419	E

Priority Applications (no., kind, date): US 1986943511 A 19861217

Patent Details							
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes		
WO 1988004557	A	EN	23	0			
National Designated States,Original	JP						
Regional Designated States,Original	AT BE CH DE FR GB IT LU NL SE						
EP 326583	A	EN					
Regional Designated States,Original	DE FR GB IT						
EP 326583	B	EN					
Regional Designated States,Original	DE FR GB IT						
JP 1993053141	B	JA	8		PCT Application	WO 1987US3245	
					Based on OPI patent	JP 01503204	
					Based on OPI patent	WO 1988004557	
CA 1328227	C	EN					

Implantable device with hydrophobic component, esp. coating... ..Original

Titles:IMPLANTABLE DEVICES HAVING HYDROPHOBIC COMPONENT...

...IMPLANTABLE DEVICES HAVING HYDROPHOBIC COMPONENT...

...IMPLANTABLE DEVICES HAVING HYDROPHOBIC COMPONENT **Alerting**

Abstract ...Implantable **device** comprises a **base** component and a hydrophobic component (I) having a hydrophobicity at least as great as that of lactide, the **device** being capable of encouraging cellular regeneration and growth... ..The **base** may be a conventional biodurable polymer or metal or bioresorbable material. Pref. the **base** is of homopolymer, copolymers or mixts. of silicones, silicone rubber, polyurethane, PET, PTFE, polyphosphazene, polyurethane... ..USE/ADVANTAGE - Esp. useful as nerve guidance channels (claimed) but also as **orthopaedic pins, clamps, screws, plates, chips, staples, vascular implants or supports, burn dressings, hernia patches, absorbent swabs, medicated dressings, facial substitutes, haemostasis sponges, dental packs, breast prostheses, slow release devices, etc.** (I) encourage cellular influx leading to neovascularisation and neuronal growth and regeneration of function... **Title Terms**

/Index Terms/Additional Words: **IMPLANT**;**DEVICE**; **Class Codes** Original

Publication Data by AuthorityArgentina**Publication No. Original Abstracts:**

Implantable **devices**, wherein the **devices** are composed of at least one **base** polymer component and at least one hydrophobic polymer component with a hydrophobicity that is equal to or greater than that of lactide. These **devices** are suitable for implantation into a living organism where they demonstrate desirable mechanical and physiological... ..

Implantable **devices**, wherein the **devices** are composed of at least one **base** polymer component and at least one hydrophobic polymer component with a hydrophobicity that is equal to or greater than that of lactide. These **devices** are suitable for implantation into a living organism where they demonstrate desirable mechanical and physiological...

Claims:Implantable **device** comprises a **base** component and a hydrophobic component (I) having a hydrophobicity at least as great as that of lactide, the **device** being capable of encouraging cellular regeneration and growth... .. The **base** may be a conventional biodurable polymer or metal or bioresorbable material. Pref. the **base** is of homopolymer, copolymers or mixts. of silicones, silicone rubber, polyurethane, PET, PTFE, polyphosphazene, polyurethane... .. 1. A prosthetic **device** suitable for implantation into living tissue for tissue regeneration and growth, said **device** comprising a **base** component which forms the framework of said **device** totally or partially coated with a bioresorbable polymeric coating component, said coating component having a hydrophobicity greater than that of the **base** component and greater than that of poly(lactide).

Dialog eLink: [Order](#) [File](#) [History](#)

20/3,K/9 (Item 9 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0002446605

WPI Acc no: 1982-A9660J/198250

Packing for record player during conveyance - has spacing devices for locking base plate to prevent damage

Patent Assignee: DOLD H (DOLD-I); DUAL GEBR STEIDINGER (DUGS)

Inventor: DOLD H

Patent Family (2 patents, 2 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 3120425	A	19821209	DE 3120425	A	19810522	198250	B
			DE 3120425	A	19810522		
US 4403763	A	19830913	US 1981293584	A	19810817	198339	E

Priority Applications (no., kind, date): DE 3120425 A 19810522

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
DE 3120425	A	DE	8	4	

...has spacing devices for locking base plate to prevent damage ...Original

Titles:Transport securing **device** for record players **Alerting Abstract** ...The packing has **spacers** (7) located beneath the **base** plate (1) and designed so as to be easy to fit and difficult to lose. The **spacers** give protection against jolts and vibration. The **spacers** hold the **base** plate in the same position during conveyance as during playing... ...The **base** plate has two holes (2,3) through which the two arms (4,5) of a U-shaped bracket hook. The bracket acts as a **spacer**. The **spine** (6) of the U-shaped **hook** has a threaded hole and acts as a **nut**. The **screw** (8) that secures the **base** plate to the mounting plate (14) during conveyance **screws** through the spine and through holes in the **base** plate, and mounting plate. The **base** plate rests on elastic cones (15). **Title Terms** .../Index Terms/Additional Words: **DEVICE**;**BASE**; **Class Codes** Original Publication Data by

AuthorityArgentina**Publication No.** ...**Original Abstracts:**Transport securing **device** for a record player, the **base** plate of which rests with the interposition of elastic **support** elements on a mounting plate, having a **spacer** which is arranged movably on the **base** plate and protrudes below the lower edge of the **base** plate and, within a thread, bears a **screw** an enlarged foot part of which engages below the mounting plate while its head extends above the **base** plate and is so provided with a collar that, upon unscrewing, it clamps the **base** plate as well as the mounting plate separately but at the same time between itself and the **spacer**, the **base** plate not changing its position with respect to the mounting plate.

NPL ABSTRACTS

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File 155:MEDLINE(R) 1950-2009/Jun 26
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File 6:NTIS 1964-2009/Jul W1
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? ds

Set	Items	Description
S1	18962519	VERTEBRA? OR INTERVERTEB? OR SPINE? OR SPINAL OR SPINOUS OR LUMBAR OR VERTEBR? OR BACKBONE OR BONE? ? OR DISC()NUCLEUS OR ORTHOPED? OR ORTHOPAED? OR SKELET? OR OSSEO? OR OSTEAL OR OSTEOD OR OSTEOLG? OR ANNULUS OR SYNOVIAL OR CONDYL? OR INTERSPINOUS?? OR INTERSPINAL?? OR BETWEEN(1W)(SPINOUS OR VERTEBRA? ?)
S2	842250	HOOK??? OR FASTENER? OR (FASTEN? OR ATTACH? OR RETAIN? OR RETENTION?)(2N)(MEMBER? ? OR ELEMENT? ? OR MECHANISM? OR DEVICE? ?) OR CLAMP OR CLAMPS OR CLASP OR CLASPS OR CLOSURE OR CLOSURES OR CLIP OR CLIPS
S3	577575	SPACER? ? OR IMPLANT? ?
S4	6138714	BRACE? OR STABILIZE? OR SUPPORT?
S5	5543335	NUT? OR SCREW? ? OR POST OR POSTS OR PIN OR PINS OR ROD OR RODS OR BOLT OR BOLTS OR PEG OR PEGS

S6 8884333 DEVICE? OR APPARATUS? OR INSTRUMENT? OR IMPLEMENT? OR TOOL? ?
 S7 11715 S1 (5N) S2
 S8 967 S7 AND S3
 S9 1577 S7 AND S4
 S10 2188 S7 AND S5
 S11 214 S8 AND S9
 S12 103 S10 AND S11
 S13 73 S12 AND S6
 S14 12983742 BASE?
 S15 6 S13 AND S14
 S16 53 S13 NOT PY>2002
 S17 33 RD (unique items)
 S18 36 S15 OR S17
 ? t s18/3,k/1-36

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18/3,K/1 (Item 1 from file: 155)
 DIALOG(R)File 155: MEDLINE(R)
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13707103 **PMID:** 10761943

The safety and efficacy of Isola-Galveston instrumentation and arthrodesis in the treatment of neuromuscular spinal deformities.

Yazici M; Asher M A; Hardacker J W

University of Kansas Medical Center, Kansas City, USA.

Journal of bone and joint surgery. American volume (UNITED STATES) Apr 2000 , 82 (4) p524-43 , **ISSN:** 0021-9355--Print **Journal Code:** 0014030

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

The safety and efficacy of Isola-Galveston instrumentation and arthrodesis in the treatment of neuromuscular spinal deformities.

BACKGROUND: **Implant** systems that realign and **stabilize** a deformed spine continue to evolve. The purpose of the study of this case series was to determine the safety and effectiveness of a system designed to integrate hook, wire, **screw**, and **post** anchors for the treatment of a wide spectrum of neuromuscular disorders associated with pelvic deformity... ..myelomeningocele (nine), Duchenne muscular dystrophy (four), or other disorders (three) were managed with Isola-Galveston **instrumentation** and arthrodesis. The average age at the time of the operation was fourteen years and... ..and nine months). Eight patients (17 percent) had an additional anterior discectomy and arthrodesis without **instrumentation**, and three (6 percent) had an additional decancellation egg-shell osteotomy. The forty-seven patients... ..one, for a pseudarthrosis repair. The remaining two reoperations were done for removal of an **implant** because the cephalad portion had

become prominent. In addition to the pseudarthrosis that required a... ..they were satisfied or very satisfied with the result of the operation. **CONCLUSIONS:** Isola-Galveston **instrumentation** seems as safe and effective as other types of **instrumentation** that have been studied in comparable series in the literature. Isola-Galveston **instrumentation** is probably more effective for the correction of pelvic obliquity and the maintenance of correction. Only a posterior procedure is used, and the **instrumentation** appears to decrease the need for an additional anterior approach. **Spinal hook**, wire, **screw**, and **post** anchors have been successfully integrated into one posterior spinal **implant** system. (

Descriptors: *Internal Fixators; *Neuromuscular Diseases--complications--CO; *Spinal Fusion--**instrumentation**--IS; *Spine--abnormalities--AB

Dialog eLink: 

18/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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13566547 **PMID:** 10483829

Operative treatment of unstable injuries of the cervicothoracic junction.

Sapkas G; Papadakis S; Katonis P; Roidis N; Kontakis G

Orthopaedic Department, Medical School Athens University, Greece.

European spine journal - official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society (GERMANY) 1999 , 8 (4) p279-83 , **ISSN:** 0940-6719--Print **Journal Code:** 9301980

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...and nerves were decompressed in all cases. Posterior stabilization was accomplished using various types of **implants** including **hooks**, wires and **rods**. Anteriorly, the **spine** was **stabilized** with plates and **screws**. Partial or complete vertebrectomy was performed in five cases and a titanium cylinder or an... ..a precise pre-operative analysis of the local anatomy and the selection of the proper **implants** for anterior and posterior stabilization. (

Descriptors: ; ...surgery--SU; Humans; Joint Instability--etiology--ET; Joint Instability --radiography--RA; Middle Aged; Orthopedic Fixation **Devices**; Palliative Care; Postoperative Complications; Retrospective Studies; Spinal Neoplasms--complications--CO; Spinal Neoplasms--secondary--SC; Spinal...

Named Person:

Dialog eLink: **USPTO Full Text Retrieval Options**

18/3,K/3 (Item 3 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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13262733 **PMID:** 10709517

Implant-supported removable overdentures in the edentulous maxilla: clinical and technical aspects.

Zitzmann N U; Marinello C P

Department of Fixed and Removable Prosthodontics and TMJ Disorders, University of Basel, Switzerland.

International journal of prosthodontics (UNITED STATES) Sep-Oct 1999 , 12 (5)

p385-90 , ISSN: 0893-2174--Print **Journal Code:** 8900938

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Implant-supported removable overdentures in the edentulous maxilla: clinical and technical aspects.

...this article is to describe the indication criteria and the treatment planning for a maxillary **implant-supported** removable overdenture. Prostheses are designed according to the requirements of the bar system and the factors influencing the extension of the prosthesis **base**. **MATERIALS AND METHODS:** The decisive factors in determining whether a bar-retained overdenture prosthesis is... ...represent the ideal location of the denture teeth in the diagnostic setup so that the **implant** position can be selected and the available space for the bar system can be assessed vertically and horizontally. **RESULTS:** For the overdenture prosthesis that is solely **implant supported** 6 to 8 **implants** are placed ideally at a distance of about 10 to 14 mm from center to center. A prefabricated bar system that allows the clips to be inserted between the **implants** can then be used. When the available bone restricts **implant** placement to adjacent tooth positions an individually milled bar that includes additional frictional **pins** and/or retentive elements needs to be planned. The prosthesis design, in particular its buccal... ...setup try-in, taking into account the patient's smile line, their need for facial **support**, and their phonetic requirements. **CONCLUSION:** The removable **implant-supported** overdenture offers flexibility in placing **implants** in either adjacent tooth positions or with greater distances between them depending on the available **bone**, as either conventional bar and **clip** systems or individually milled bars can be used. Adjustment of the buccal prosthesis flange and the palatal prosthesis **base** is made to fulfill the patient's requirements concerning esthetics, phonetics, comfort, and function. (

Descriptors: *Dental Prosthesis Retention--**instrumentation**--IS; *Dental Prosthesis, **Implant-Supported**; *Denture, Overlay; *Jaw, Edentulous--rehabilitation--RH

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18/3,K/4 (Item 4 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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12236560 **PMID:** 9042687

Internal fixation of the spine in traumatic and scoliotic cases. The potential of pedicle screws.

Van Brussel K; Vander Sloten J; Van Audekercke R; Fabry G

Afdeling Biomechanica en Grafisch Ontwerpen, Katholieke Universiteit Leuven, Heverlee, Belgium.

Technology and health care - official journal of the European Society for Engineering and Medicine (NETHERLANDS) Dec 1996 , 4 (4) p365-84 , **ISSN:** 0928-7329--

Print **Journal Code:** 9314590

Publishing Model Print

Document type: Journal Article; Review

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Internal fixation of the spine in traumatic and scoliotic cases. The potential of pedicle screws.

Internal fixation techniques are in common used to **stabilize** vertebral fractures and correct severe scoliosis. Consolidation of injured vertebrae with neighbouring intact vertebra is... ..at in the latter case. Degenerative spine diseases are not considered in this paper. Classical **instrumentation** consists of **rods** (e.g., Cotrel-Dubousset, Harrington, Luque-Galveston) attached to the **bone** by means of **hooks** or wires. More recently, transpedicular **screws** are introduced as an alternative bone/**implant** interface. Comparing the results of several studies, the posterior pedicle **screw based devices** demonstrate the ability to produce the most rigid constructs. However, the insertion of pedicle **screws** implicates a relatively high complication risk and its success strongly depends on the experience of the surgeon. Incorrect drilled holes or malplacement of the **screws** can result in nerve root injuries and fracture of the pedicle. Studies reported complication ratios... ..of automation of the critical actions may be necessary to enhance the safety of pedicle **screw** insertion. Two techniques of computer assisted spine surgery are compared. Both techniques permit a computer assisted surgical planning **based** on CT images. During operation the first system permanently observes the position of the drill...
(

Descriptors: *Bone Screws; *Fracture Fixation, Internal--methods--MT; *Scoliosis --surgery--SU; *Spinal Fractures--surgery--SU

Dialog eLink: **USPTO Full Text Retrieval Options**

18/3,K/5 (Item 5 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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12116772 PMID: 8883209

Repair of defects in spondylolysis by segmental pedicular screw hook fixation. A preliminary report.

Tokuhashi Y; Matsuzaki H

Department of Orthopaedic Surgery, Nihon University School of Medicine, Tokyo, Japan.

Spine (UNITED STATES) Sep 1 1996 , 21 (17) p2041-5 , ISSN: 0362-2436--Print

Journal Code: 7610646

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Repair of defects in spondylolysis by segmental pedicular screw hook fixation. A preliminary report.

STUDY DESIGN: Clinical testing of segmental pedicular **screw hook** fixation repairing defects in **lumbar** spondylolysis. **OBJECTIVES:** The authors tested segmental pedicular **screw** hook fixation using ISOLA **implants** (AcroMed Corp., Cleveland, OH) to maintain direct repair of the defect in pars interarticularis while fusion occurs. The **device** should not break while fusion takes place with out a postoperative body cast.

SUMMARY OF... ...wire breakage has occurred despite the use of a postoperative body cast. **METHODS:** This technique **stabilizes** bone grafted to the defect by a pedicular **screw**, a hook, and a **rod** used in combination. Six patients with lumbar spondylolysis were treated by means of this techniquepatients to have a bilateral union and one a unilateral union, and none of the **instrumentation** failed. **CONCLUSION:** This technique is considered useful for direct repair of the defects found in... (

Descriptors: *Bone Screws; *Lumbar Vertebrae--surgery--SU; *Orthopedic Fixation Devices; *Spondylolysis--surgery--SU

Dialog eLink: [ISPTO Full Text Retrieval Options](#)

18/3,K/6 (Item 6 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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09996498 PMID: 1869938

Texas Scottish Rite Hospital rod instrumentation for thoracic and lumbar spine trauma.

Benzel E C; Kesterson L; Marchand E P

Division of Neurosurgery, University of New Mexico School of Medicine, Albuquerque. Journal of neurosurgery (UNITED STATES) Sep 1991 , 75 (3) p382-7 , ISSN: 0022-

3085--Print **Journal Code:** 0253357

Publishing Model Print; Comment in J Neurosurg. 1992 Mar;76(3) 560-1; Comment in PMID 1738043

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Texas Scottish Rite Hospital rod instrumentation for thoracic and lumbar spine trauma.

...28 patients who had incurred unstable thoracic or lumbar spine fractures and who were intraoperatively **stabilized** with the Texas Scottish Rite Hospital (TSRH) universal **instrumentation** system. These patients were treated over a 1-year period and reflect an evolving insight into the treatment of thoracic and lumbar spine trauma with universal **instrumentation**. The TSRH **instrumentation** system appears equivalent to the more established Cotrel-Dubousset system in most respects. The construct design of the TSRH system facilitates the safe application of a rigid spinal **implant**. No cases of instability or pseudoarthrosis were observed during an average follow-up period of... ..plan evolved, shorter and more compact constructs were increasingly utilized. There were no cases of **instrumentation** failure, regardless of the number of spinal levels fused or the number of levels **instrumented**. The value of using short **rods** when possible is emphasized: they may decrease the incidence of delayed instability and discomfort related to loosening at the **hook/bone** interface compared to that observed when long-**rod** systems are used in association with short spine fusions causing a fusion/ **instrumentation** mismatch. (**Descriptors:** *Internal Fixators; *Lumbar Vertebrae--injuries--IN; *Lumbar Vertebrae --surgery--SU; *Spinal Fusion--**instrumentation**--IS; *Thoracic Vertebrae--injuries--IN; *Thoracic Vertebrae--surgery--SU

Dialog eLink: 

18/3,K/7 (Item 7 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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08934834 **PMID:** 3194791

Posterior plating of the cervical spine. A biomechanical comparison of different posterior fusion techniques.

Gill K; Paschal S; Corin J; Ashman R; Bucholz R W

Division of Orthopaedic Surgery, University of Texas Southwestern Medical Center, Dallas.

Spine (UNITED STATES) Jul 1988 , 13 (7) p813-6 , **ISSN:** 0362-2436--Print

Journal Code: 7610646

Publishing Model Print

Document type: Comparative Study; Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...ligamentous structures were preserved. Four different posterior fixation constructs were tested. These included 1) Rogers **interspinous** wiring, 2) Halifax laminar **clamps**, 3) bilateral 1/3 tubular plates on the lateral masses, using unicortical **screws**, and 4) bilateral 1/3 tubular plates on the lateral masses, using bicortical **screws**. Stiffness measurements were taken in both flexion and extension on all specimens. Yield strength and... ..spines were not measured. It was found that 1/3 tubular plates secured with bicortical **screws** to the lateral masses provided the highest mean stiffness. Less stiffness was found in **spines stabilized** by Halifax **clamps**, **interspinous** wiring, and plates secured with unicortical **screws**. There was, however, no statistically significant difference in stiffness provided by any of these four **implants**. It was concluded that there is no advantage in plate fixation over standard fusion constructs... (

Descriptors: ; Biomechanics; Humans; Movement; Neck; Orthopedic Fixation **Devices**

Named Person:

Dialog eLink:

USPTO Full Text Retrieval Options

18/3,K/8 (Item 1 from file: 73)

DIALOG(R)File 73: EMBASE

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0077569961 **EMBASE No:** 1999056092

Comparison of anterior and posterior instrumentation for correction of adolescent thoracic idiopathic scoliosis

Betz R.R.; Harms J.; Clements III D.H.; Lenke L.G.; Lowe T.G.; Shufflebarger H.L.; Jeszenszky D.; Beele B.

Shriners Hospital, Temple University Hospital, Philadelphia, PA, United States; Rehabilitationskrankenhaus, Langensteinbach, Germany; Washington University Medical Center, St. Louis, Missouri; University of Colorado, Health Science Center, Denver, CO, United States; University of Miami, School of Medicine, Miami, FL, United States; Shriners Hospitals, 3551 N. Broad St, Philadelphia, PA 19140, United States

Corresp. Author/Affil: Betz R.R.: Shriners Hospitals, 3551 N. Broad St., Philadelphia, PA 19140, United States

Spine (Spine) (United States) February 1, 1999 , 24/3 (225-239)

CODEN: SPIND **ISSN:** 0362-2436

Item Identifier (DOI): [10.1097/00007632-199902010-00007](https://doi.org/10.1097/00007632-199902010-00007)

Document Type: Journal ; Article **Record Type:** Abstract

Language: English **Summary language:** English

Number of References: 39

Comparison of anterior and posterior instrumentation for correction of adolescent thoracic idiopathic scoliosis

...This was a prospective study of two cohort groups of patients (one group receiving anterior **instrumentation** and the other posterior **instrumentation**) receiving treatment for thoracic idiopathic scoliosis. Objective. To present the 2-year postoperative results of a prospective multicenter study comparing the use of anterior **instrumentation** with that of posterior multisegmented hook **instrumentation** for the correction of adolescent thoracic idiopathic scoliosis. Summary of Background Data. Despite reports of... ..the lumbar curve after surgery and failure to correct hypokyphosis. Theoretically, the advantages of anterior **instrumentation** include prevention of lumbar curve decompensation by shortening the convexity of the thoracic curve. In... ..be obtained, Methods. Seventy-eight patients who underwent an anterior spinal fusion using flexible threaded **rods** and **nuts** (Harms-MOSS **instrumentation**, De Puy-Motech-Acromed, Cleveland, OH) were analyzed and compared with 100 patients who underwent posterior **spinal** fusion with multisegmented **hook** systems. Parameters of comparison included coronal and sagittal correction, balance, distal lumbar fusion levels, and... ..of 2.5 (range, 0-6) distal fusion levels were saved using the anterior spinal **instrumentation** according to the criteria used for determining posterior fusion levels in this study. Selective fusion... ..group and in 12 of 100 patients (12%) in the posterior group ($P = 0.01$). **Implant** breakage occurred in 24 patients (31%) of the anterior group and in only 1 patient... ..3) An average of 2.5 lumbar levels can be saved with anterior fusion and **instrumentation** according to the criteria used for choosing posterior fusion levels in this study. 4) Using the 3.2-mm flexible **rod** in this study, loss of correction, pseudarthrosis, and **rod** breakage were unacceptably higher in the anterior group than in the posterior group. Structural anterior **support** and a stronger **implant** are needed.

Device Brand Name: Harms-MOSS **instrumentation**/De Puy/United States

Device Manufacturer:

Medical Descriptors:

*

...major clinical study; multicenter study; osteoarthritis; pediatric surgery; priority journal; school child; surgical approach; surgical **instrument**; thoracic spine

Orig. Descriptors:

SECTION HEADINGS:

Biophysics, Bioengineering and Medical **Instrumentation**

Orthopedic Surgery

Pediatrics and Pediatric Surgery

Neurology and Neurosurgery

Dialog eLink:

USPTO Full Text Retrieval Options

18/3,K/9 (Item 2 from file: 73)

DIALOG(R)File 73: EMBASE

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0076987724 **EMBASE No:** 1997280944

Internal fixation of the spine in traumatic and scoliotic cases. The potential of pedicle screws

Van Brussel K.; Vander Sloten J.; Van Audekercke R.; Fabry G.
Afdeling Biomechanica en Grafisch Ontwerpen, Katholieke Universiteit Leuven,
Celestijnenlaan 200A, B-3001 Heverlee, Belgium
Corresp. Author/Affil: Vander Sloten J.: ABGO, Katholieke Universiteit Leuven,
Celestijnenlaan 200A, B-3001 Heverlee, Belgium

Technology and Health Care (TECHNOL. HEALTH CARE) (Netherlands)
December 1, 1996 , 4/4 (365-384)

CODEN: THCAE **ISSN:** 0928-7329

Document Type: Journal ; Review **Record Type:** Abstract

Language: English **Summary language:** English

Number of References: 44

**Internal fixation of the spine in traumatic and scoliotic cases. The potential of
pedicle screws**

Internal fixation techniques are in common used to **stabilize** vertebral fractures and correct severe scoliosis. Consolidation of injured vertebrae with neighbouring intact vertebra is... ..at in the latter case. Degenerative spine diseases are not considered in this paper. Classical **instrumentation** consists of **rods** (e.g., Cotrel-Dubousset, Harrington, Luque-Galveston) attached to the **bone** by means of **hooks** or wires. More recently, transpedicular **screws** are introduced as an alternative bone/**implant** interface. Comparing the results of several studies, the posterior pedicle **screw based devices** demonstrate the ability to produce the most rigid constructs. However, the insertion of pedicle **screws** implicates a relatively high complication risk and its succes strongly depends on the experience of the surgeon. Incorrect drilled holes or malplacement of the **screws** can result in nerve root injuries and fracture of the pedicle. Studies reported complication ratios... ..of automation of the critical actions may be necessary to enhance the safety of pedicle **screw** insertion. Two techniques of computer assisted spine surgery are compared. Both techniques permit a computer assisted surgical planning **based** on CT images. During operation the first system permanently observes the position of the drill...

Medical Descriptors:

* bone **screw**; *osteosynthesis; *scoliosis--surgery--su; *spine injury --surgery--su

SECTION HEADINGS:

Biophysics, Bioengineering and Medical **Instrumentation**
Orthopedic Surgery

18/3,K/10 (Item 1 from file: 5)
DIALOG(R)File 5: Biosis Previews(R)
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18017452 **Biosis No.:** 200400388241

Non-metal inserts for bone support assembly

Author: Hover Anne (Reprint); Sanders Roy; Sturgeon Donald Martin; Lower Jerry
Journal: Official Gazette of the United States Patent and Trademark Office Patents

1285 (5): Aug. 31, 2004 2004

Medium: e-file

Patent Number: US 6783529 **Patent Date Granted:** August 31, 2004 20040831

Patent Classification: 606-62 **Patent Assignee:** DePuy Orthopaedics, Inc. **Patent Country:** USA

ISSN: 0098-1133 _(ISSN print)

Document Type: Patent

Record Type: Abstract

Language: English

Non-metal inserts for bone support assembly

Abstract: A bone **support** structure is formed with opposing dynamization windows, and **spacers** of a bioresorbable material are positioned within the dynamization windows. The dynamization windows are longer than they are wide. The **spacers** may be integrally formed as a single insert. The bone **support** assembly is used with a **bone fastener** such as a **bone screw** which is advanced transversely through both the insert and the **bone**. The **bone fastener** is smaller across than the dynamization windows, so each **spacer** spaces the **bone fastener** relative to its dynamization window. As the **spacers** resorb, stress (at least in one direction) is increasingly transmitted through the fracture site rather than through the bone **support** structure. The positioning of the **bone fastener**, the shape and size of the dynamization windows and **spacers**, and the material of the **spacers** all allow design control over the type and amount of dynamization seen at the fracture site. Also, because the **bone fastener** is smaller across than the dynamization windows and **spacers**, a larger error in placement of the **bone fastener** is permissible. The insert can be selected by the surgeon and placed into the bone **support** structure **based** upon desired treatment modalities.

DESCRIPTORS:

Major Concepts: ...Equipment **Apparatus Devices and Instrumentation;**

Biosystematic Names:

Methods & Equipment: bone **support** structure...

Geographical Name:

18/3,K/11 (Item 2 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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16714932 **Biosis No.:** 200200308443

Spinal implant and method

Author: Rogozinski Chaim

Journal: Official Gazette of the United States Patent and Trademark Office Patents

1257 (5): Apr. 30, 2002 2002

Medium: e-file

Patent Number: US 6379354 **Patent Date Granted:** April 30, 2002 20020430 **Patent Classification:** 606-61 **Patent Country:** USA

ISSN: 0098-1133

Document Type: Patent

Record Type: Abstract

Language: English

Spinal implant and method

Abstract: An **apparatus**, method and system for treating spinal conditions by moving or spatially fixing at least one... ..The link members can be in the form of a C-shaped or V-shaped **rod** or plate to form the offset. The offset provides increased bone volume that can be used for grafts or fusion. Attachment structure in the form of **bone screws, bolts**, or **hook** members are provided to secure the link members to respective vertebrae or other bones. A... ..member is provided and may be used with the link members to form a spinal **implant** or external bone fixation system.

DESCRIPTORS:

Major Concepts: ...Movement and **Support**;

Biosystematic Names:

Methods & Equipment: spinal **implant**--... ..spinal **implant** method

Geographical Name:

Dialog eLink:

USPTO Full Text Retrieval Options

18/3,K/12 (Item 3 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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16667759 **Biosis No.:** 200200261270

Biomechanical study and digital modeling of traction resistance in posterior thoracic implants

Author: Gayet Louis Etienne (Reprint); Pries Pierre; Hamcha Hamid; Clarac Jean-Pierre; Texereau Jacques

Author Address: Service d'Orthopedie Traumatologie Adulte et Infantile, Hopital Jean Bernard, CHU de la Mileterie, H2A, 86021, Poitiers Cedex, France**France

Journal: Spine 27 (7); p 707-714 April 1, 2002 2002

Medium: print

ISSN: 0362-2436

Document Type: Article

Record Type: Abstract

Language: English

Biomechanical study and digital modeling of traction resistance in posterior thoracic implants

Abstract: Study Design: Posterior **implants** were used to test the resistance of seven human thoracic spines to traction, and results... ..compared with those of a digital study.

Objectives: To compare the use of hook and **screw** fixation methods for posterior thoracic surgery in a study supplemented by a digital analysis using the finite-element method. **Summary of Background Data:** The maximum break strength of pedicular **screws** on bone has already been studied several times. Far fewer studies have investigated the stresses that may be applied to pedicular and laminar hooks or compared these hooks with pedicular **screws** in the thorax. **Methods:** For this study, seven human thoracic spines were used, identifying 49 groups of two vertebrae each. The assemblies used a **bolt** in the medullary cavity. The central diameter of this **bolt** could be varied using tubes to suit the individual medullary cavity, spreading the stresses over... ..Instron machine. Traction speed in all the tests was 5 mm per minute. Four pedicular **screws** and two pedicular-laminar clips were used alternately. In these tests, 25 values were obtained with hooks and 24 with **screws**. The group with **screw** fixation was tested in two halves, with 12 tests using 4-mm diameter **screws** and 12 tests using 5-mm diameter **screws**. For the digital study, the vertebra model comprised nearly 63,000 nodes and 14,000... ..calculation method. **Results:** Each time pedicular-laminar traction was used, the pedicles broke at the **base**. Where **screws** were used, a medial fissure was found at the **base** of the pedicle. For the hooks, the maximum break strength was 1150+-388 N. It was 820+-418 N when 4-mm diameter **screws** were used and 1395+-435 N when 5-mm **screws** were used. The most fragile vertebrae were found to be at T5-T6 and T7-T8. The **screw-instrumented** model showed that stresses were concentrated at the medial part of the pedicle, inside the medullary cavity. Use of a long **screw** did not lead to noticeable stress reduction. The hook-**instrumented** model showed that the stresses were greatest in the lower part of the pedicles. **Conclusions:** **Screw** fixation is the most appropriate-from a mechanical point of view. During tests, however, **screw** fixation falls short of its promises. This leads to the hypothesis that in most cases **screws** pull out because the bony anchoring of the pedicle screwing fails. **Screws** are less effective if their anchoring in the pedicles cannot be guaranteed, which is probably the reason for their relative weakness. **Screw** diameter should be chosen according to the size of each pedicle. The findings showed that **hooks** impose additional stresses on the **vertebrae**.

DESCRIPTORS:

Major Concepts: Equipment, Apparatus, Devices and Instrumentation; ...
...Movement and Support

Biosystematic Names:

Methods & Equipment: ...pedicle screw--... ..screw fixation

Geographical Name:

Dialog eLink:

USPTO Full Text Retrieval Options

18/3,K/13 (Item 4 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2009 The Thomson Corporation. All rights reserved.

16493747 **Biosis No.:** 200200087258

Spinal implant device having a single central rod and claw hooks

Author: Errico J P; Errico T J; Ralph J D

Author Address: Far Hills, N.J., USA**USA

Journal: Official Gazette of the United States Patent and Trademark Office Patents
1204 (3): p 2062 Nov. 18, 1997 1997

Medium: print

Patent Number: US 5688274 **Patent Date Granted:** Nov. 18, 1997 19971118 **Patent**

Classification: 606-61 **Patent Assignee:** FASTENETIX LLC **Patent Country:** USA
ISSN: 0098-1133

Document Type: Patent

Record Type: Citation

Language: English

Spinal implant device having a single central rod and claw hooks

DESCRIPTORS:

Major Concepts: ...Movement and Support

Biosystematic Names:

Miscellaneous Terms: Concept Codes: DEVICE;ORTHOPEDIC HOOK; ...
...SPINAL IMPLANT

Dialog eLink:

USPTO Full Text Retrieval Options

18/3,K/14 (Item 5 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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16493746 **Biosis No.:** 200200087257

Spinal implant apparatus having a single central rod and plow hooks

Author: Errico J P; Errico T J; Ralph J D

Author Address: Far Hills, N.J., USA**USA

Journal: Official Gazette of the United States Patent and Trademark Office Patents
1204 (3): p 2061-2062 Nov. 18, 1997 1997

Medium: print

Patent Number: US 5688273 **Patent Date Granted:** Nov. 18, 1997 19971118 **Patent**

Classification: 606-61 **Patent Assignee:** FASTENETIX, LLC **Patent Country:** USA
ISSN: 0098-1133

Document Type: Patent

Record Type: Citation

Language: English

Spinal implant apparatus having a single central rod and plow hooks

DESCRIPTORS:

Major Concepts: ...Movement and Support

Biosystematic Names:

Miscellaneous Terms: Concept Codes: DEVICE;ORTHOPEDIC HOOK; ...
...ROD IMPLANTATION... ...SPINAL IMPLANT

Dialog eLink: [USPTO Full Text Retrieval Options](#)

18/3,K/15 (Item 6 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2009 The Thomson Corporation. All rights reserved.

16465461 **Biosis No.:** 200200058972

Device for retaining a connecting rod of a spine fixator on a pedicular screw

Author: Fournet-Fayard J; Garin C; Meylan G; Lucet A

Author Address: Valence, France**France

Journal: Official Gazette of the United States Patent and Trademark Office Patents
1193 (3): p 1932 Dec. 17, 1996 1996

Medium: print

Patent Number: US 5584833 **Patent Date Granted:** Dec. 17, 1996 19961217 **Patent**

Classification: 606-61 **Patent Assignee:** SOPRANE S.A. **Patent Country:** USA

ISSN: 0098-1133

Document Type: Patent

Record Type: Citation

Language: English

Device for retaining a connecting rod of a spine fixator on a pedicular screw

DESCRIPTORS:

Major Concepts: ...Movement and **Support;**

Biosystematic Names:

Miscellaneous Terms: Concept Codes: ...IMPLANT;PEDICULAR SCREW;

Dialog eLink: [USPTO Full Text Retrieval Options](#)

18/3,K/16 (Item 7 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2009 The Thomson Corporation. All rights reserved.

16465460 **Biosis No.:** 200200058971

Hook with screw for treatment of vertebral column deformities

Author: Schlapfer J F

Author Address: Glarus, Switzerland**Switzerland

Journal: Official Gazette of the United States Patent and Trademark Office Patents
1193 (3): p 1932 Dec. 17, 1996 1996

Medium: print

Patent Number: US 5584832 **Patent Date Granted:** Dec. 17, 1996 19961217 **Patent**

Classification: 606-61 **Patent Assignee:** SYNTHES (U.S.A.) **Patent Country:** USA

ISSN: 0098-1133

Document Type: Patent

Record Type: Citation

Language: English

Hook with screw for treatment of vertebral column deformities

DESCRIPTORS:

Major Concepts: ...Movement and Support;

Biosystematic Names:

**Miscellaneous Terms: Concept Codes: DEVICE;HOOK AND SCREW; ...
...IMPLANT;**

Dialog eLink:

USPTO Full Text Retrieval Options

18/3,K/17 (Item 8 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2009 The Thomson Corporation. All rights reserved.

16453909 **Biosis No.:** 200200047420

Occipital clamp assembly for cervical spine rod fixation

Author: Howland R S

Author Address: Seal Beach, Calif., USA**USA

Journal: Official Gazette of the United States Patent and Trademark Office Patents

1189 (2): p 1100 Aug. 13, 1996 1996

Medium: print

Patent Number: US 5545164 **Patent Date Granted:** Aug. 13, 1996 19960813 **Patent**

Classification: 606-61 **Patent Assignee:** ADVANCED SPINE FIXATION SYSTEMS,
INCORPORATED **Patent Country:** USA

ISSN: 0098-1133

Document Type: Patent

Record Type: Citation

Language: English

Occipital clamp assembly for cervical spine rod fixation

DESCRIPTORS:

Major Concepts: ...Movement and Support

Biosystematic Names:

Miscellaneous Terms: Concept Codes: DEVICE;IMPLANT;

18/3,K/18 (Item 9 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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16042344 **Biosis No.:** 200100214183

Hooks for implants to correct and stabilize the vertebral column

Author: Von Strempel Archibald (Reprint)

Author Address: Burgwedel, Germany**Germany

Journal: Official Gazette of the United States Patent and Trademark Office Patents
1238 (2): Sep. 12, 2000 2000

Medium: e-file

Patent Number: US 6117136 **Patent Date Granted:** September 12, 2000 20000912

Patent Classification: 606-61 **Patent Assignee:** Ulrich GmbH and Co. KG, Ulm,
Germany **Patent Country:** USA

ISSN: 0098-1133

Document Type: Patent

Record Type: Abstract

Language: English

Hooks for implants to correct and stabilize the vertebral column

Abstract: A hook for **implants** for correcting and stabilizing the spinal column has a head (3) that has a seat (5) for a **rod** that can be inserted into and fixed on the head (3) and with a rear arm (4) hookable behind the **bone**. Two of the **hooks** are releasably latchable with each other at their heads (3) and have arms (4) that...

DESCRIPTORS:

Major Concepts: Equipment, **Apparatus**, **Devices** and **Instrumentation**;

Biosystematic Names:

Methods & Equipment: ...hook for vertebral column **implants**--... ...vertebral column
implant--

Geographical Name:

Dialog eLink: 

18/3,K/19 (Item 10 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2009 The Thomson Corporation. All rights reserved.

13771457 **Biosis No.:** 199799405517

Novel animal model for studying the molecular mechanisms of bacterial adhesion to bone-implanted metallic devices: Role of fibronectin in Staphylococcus aureus adhesion

Author: Fischer Beat; Vaudaux Pierre (Reprint); Magnin Marc; El Mestikawy Yousri;
Proctor Richard A; Lew Daniel P; Vasey Harold

Author Address: Div. Infect. Dis., Univ. Hosp., 1211 Geneva 14,
Switzerland**Switzerland

Journal: Journal of Orthopaedic Research 14 (6): p 914-920 1996 1996

ISSN: 0736-0266

Document Type: Article

Record Type: Abstract

Language: English

Novel animal model for studying the molecular mechanisms of bacterial adhesion to bone-implanted metallic devices: Role of fibronectin in Staphylococcus aureus

adhesion

Abstract: Infection around metallic **implants** is a rare but severe complication of orthopaedic surgery. A novel animal model mimicking conditions of internal fixation **devices** was developed to evaluate the role of host proteins adsorbed on metallic **devices** in promoting adhesion and colonization of the material surfaces by *Staphylococcus aureus*. Small plates made of pure titanium were either fixed (three **screws** per plate) onto the iliac bones of guinea pigs or implanted into their subcutaneous space as controls. Five to 6 weeks after surgery, the plates and **screws** were removed from the previously killed animals, carefully rinsed in buffer, and tested in an... ..metallic surfaces. To evaluate the role of fibronectin in staphylococcal adhesion to explanted plates and **screws**, a mutant of *S. aureus* that is specifically defective in fibronectin adhesion due to decreased... ..metallic plates. The results of this specific biological assay suggest that fibronectin is present on **bone**-implanted metallic **devices** and promotes **attachment** of *S. aureus* to their surfaces. This novel experimental model should help to characterize several parameters of bacterial adhesion to metallic orthopaedic **devices** and to develop novel anti-adhesive strategies for preventing such infections.

DESCRIPTORS:

Major Concepts: ...Movement and Support

Biosystematic Names:

Miscellaneous Terms: Concept Codes: ...BONE-IMPLANTED METALLIC DEVICE;

Dialog eLink:

USPTO Full Text Retrieval Options

18/3,K/20 (Item 11 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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13334578 **Biosis No.:** 199698802411

SOFCOT Continuing Education Collection, No. 53. Spinal instrumentation

Book Title: [SOFCOT Continuing Education Collection; Spinal **instrumentation**]

Original Language Book Title: Cahiers d'Enseignement de la SOFCOT;

Instrumentation rachidienne

Author: Pous J-G (Reprint); Karger C; Milon E

Book Author/editor: Pous J-G (Editor); Karger C (Editor); Milon E (Editor)

Author Address: Serv. Orthop. Traumatol. Infantile, Hopital Lapeyronie, Montpellier, France **France

Series Title: Cahiers d'Enseignement de la SOFCOT 53 p xvi+340p 1995

Book Publisher: Expansion Scientifique Francaise {a}, 15 rue Saint Benoit, 75278 Paris, France

ISSN: 0338-3849 **ISBN:** 2-7046-1488-1

Document Type: Book

Record Type: Abstract

Language: French

SOFCOT Continuing Education Collection, No. 53. Spinal instrumentation

Book Title: [SOFCOT Continuing Education Collection; Spinal **instrumentation**]

Original Language Book Title: Cahiers d'Enseignement de la SOFCOT;

Instrumentation rachidienne

Abstract: This collection of articles on spinal **instrumentation** is intended as a reference for students, professors, surgeons and specialists in spinal surgery. The... ..articles on the history of spinal surgery, spinal anatomy and foundations for the use of **instrumentation** in spinal fixation. The following section, focusing on concepts and techniques for **spinal implants**, discusses pedicular **screws**, **hooks**, wires and **vertebral** plates. The third section is devoted to spinal **instrumentation** systems, their functions and surgical techniques, including Cotrel-Dubousset **instrumentation**, Zielke **instrumentation**, Texas Scottish Rite Hospital **instrumentation** and internal fixation **devices**. The final section focuses on the value of spinal **instrumentation** in treating spinal disorders such as scoliosis, spinal tumors, spinal injuries and spinal degeneration. Numerous ...

DESCRIPTORS:

Major Concepts: ...Movement and **Support**

Biosystematic Names:

Dialog eLink:

USPTO Full Text Retrieval Options

18/3,K/21 (Item 12 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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10194442 **Biosis No.:** 199089112333

**MULTIAXIS CYCLIC BIOMECHANICAL TESTING OF HARRINGTON
LUQUE AND DRUMMOND IMPLANTS**

Author: NASCA R J (Reprint); LEMONS J E; WALKER J; BATSON S

Author Address: ORTHOPAEDIC RES, VAMC 4 R 14, 700 SOUTH 19TH ST,
BIRMINGHAM, ALA 35233, USA **USA

Journal: Spine 15 (1); p 15-20 1990

ISSN: 0362-2436

Document Type: Article

Record Type: Abstract

Language: ENGLISH

**MULTIAXIS CYCLIC BIOMECHANICAL TESTING OF HARRINGTON
LUQUE AND DRUMMOND IMPLANTS**

Abstract: The performance characteristics of Harrington-Moe distraction **rods**, paired wired Luque **rods** and Drummond's system were evaluated and compared when subjected to nondestructive cyclic, multidirectional biomechanical... ..fresh, frozen swine spines

with intact facet joints and anterior and posterior ligamentous complexes were **instrumented** and tested in a specially designed pneumatic testing machine. The **instrumented** spines were subjected to 207 kN/m² compression and 49 N-m torsion. Each spine... multidirectional testing revealed no change in their osteoligamentous integrity compared with pre-testing. Pre- and **post**-testing radiographs showed no evidence of **osseous** failure, **hook** dislodgement or wire breakage. Erosion of laminal **bone** at the Harrington **hook** attachment sites was observed. Displacement of the Harrington hooks was seen during off-axis compression... testing. Fretting and deposit of metal wear debris occurred between the sublaminal wires and "L" **rods**. There was no evidence of loosening of either the Drummond or Luque **implants** or fatigue failure of any component. Analysis of the linear and angular displacement data showed that the Luque and Drummond **instrumented** spines displaced less in axial compression, off-axis compression and off-axis compression-torsion than the single Harrington-Moe distraction **rod**. Throughout torsional testing, none of the three **implants** showed statistically significant rotational stability. Multidirectional, cyclic, nondestructive testing of spinal **implants** in vitro results in reliable data useful for the design and development of future spine **implants**.

Descriptors: PIG SPINAL IMPLANTS ROTATIONAL STABILITY COMPUTER APPLICATIONS

DESCRIPTORS:

Major Concepts: ...Movement and Support;

Dialog eLink:

USPTO Full Text Retrieval Options

18/3,K/22 (Item 13 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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07627796 **Biosis No.:** 198579046695

A NEW METHOD FOR CONTINUOUS INTRAOPERATIVE MEASUREMENT OF HARRINGTON ROD LOADING PATTERNS

Author: DANIELS A U (Reprint); GEMPERLINE P; GRAHN A R; DUNN H K

Author Address: ORTHOPEDIC BIOENG LAB, DIV ORTHOPEDIC SURG, UNIV UTAH SCH MED, SALT LAKE CITY, UTAH 84132, USA**USA

Journal: Annals of Biomedical Engineering 12 (3): p 233-246 1984

ISSN: 0090-6964

Document Type: Article

Record Type: Abstract

Language: ENGLISH

A NEW METHOD FOR CONTINUOUS INTRAOPERATIVE MEASUREMENT OF HARRINGTON ROD LOADING PATTERNS

Abstract: A new method was developed for continuous intra-operative monitoring of bone and **implant** loading patterns in the operative correction of scoliosis using the

Harrington distraction **rod** [in humans]. The method incorporates a strain gauge **instrumented**, distal Harrington hook and similarly equipped Harrington operating **instruments** (outrigger and distractor). These latter **instruments** are used to calibrate the **hook's** response to **bone** loads under existing operative conditions. Alternative methods of monitoring loading patterns were explored and rejected... ..required more expensive components. The method established is being used to avoid bone rupture or **rod** damage while gaining maximum spinal correction and to determine the effect of auxiliary **implant** components on loading patterns.

Descriptors: HUMAN SCOLIOSIS BONE RUPTURE **ROD** DAMAGE STRAIN GAUGE DISTAL HARRINGTON HOOK OUTRIGGER DISTRACTOR

DESCRIPTORS:

Major Concepts: ...Movement and **Support**;

18/3,K/23 (Item 1 from file: 144)

DIALOG(R)File 144: Pascal

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14724255 PASCAL No.: 00-0400373

Evaluation of a skeletal muscle energy convertor in a chronic animal model

REICHENBACH S H; GUSTAFSON K J; EGRIE G D; WEIDMAN J R; FARRAR D J; HILL J D

California Pacific Medical Center, San Francisco, California, United States; Thoratec Laboratories, Pleasanton, California, United States

Journal: ASAIO journal : (1992), 2000
, 46 (4) 482-485

Language: English

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A **device** is under development for powering cardiac assist **devices** with skeletal muscle contracting in a linear configuration by converting muscle work to hydraulic energy. Prototype **devices** are being implanted in goats to study **device** performance and associated muscle mechanics. Percutaneous hydraulic lines provide the means to control muscle load and evaluate muscle performance during an electrical conditioning protocol. Chronic **implant** durations ranged from 36 to 87 days in 7 goats. The latissimus dorsi muscle (LDM) insertion was reconnected to the **device** with a tendon loop. A sternal plate attached with **bone screws**, and a rib **clamp** secured the **device**. A new modular sternal mount design was **implemented** to eliminate plate loosening that complicated early **implants**. Extensive **bone** remodeling around the rib **clamp** was observed, The tendon attachment demonstrated sufficient initial strength; however, in five **implants**, efforts to repair the tendon were required. **Device** encapsulation was observed, but the **device** continued to cycle

freely and no tethering adhesions to the **device** were found. Interactions between the capsule wall and LDM seemed to limit LDM movement in...

English Descriptors: Energy convertor; Hydraulic power; Implanted; Latissimus dorsi muscle; Cardiocirculatory **support**; Long term; Conditioning; Complication; Biotechnology; Animal model; Evolution; Goat; Animal

French Descriptors: Convertisseur energie; Energie hydraulique; **Implante**; Muscle grand dorsal; Assistance cardiocirculatoire; Long terme; Conditionnement; Complication; Biotechnologie; Modele animal; Evolution; Chevre; Animal

18/3,K/24 (Item 1 from file: 35)
DIALOG(R)File 35: Dissertation Abs Online
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01674424 ORDER NO: AAD99-11375
**THE FEASIBILITY OF LOWER LIMB DIRECT SKELETAL ATTACHMENT:
A PILOT STUDY (PROSTHESIS)**

Author: SAUNDERS, MARNIE MARIE

Degree: PH.D.

Year: 1998

Corporate Source/Institution: THE UNIVERSITY OF AKRON (0003)

Source: Volume 5910B of Dissertations Abstracts International.

PAGE 5466 . 321 PAGES

...was conducted to develop a novel technique for the design and selection of a Direct **Skeletal Attachment** (DSA) **device** in a Yucatan micropig model. The goal of the pilot study was to address DSA... ..obtaining funding for a large scale study in a statistically significant population.

The unique DSA **device** consisted of two stages. The first stage, the load-carrying stage, functioned to transmit the... ..design and select an acceptable load-carrying geometry, three-dimensional computer models of the bone/**implant** systems were constructed. Bone remodeling theory in conjunction with Finite Element Analysis (FEA) was incorporated into the models to determine the effect of the **implant** designs on the bone.

The selected design for the load-carrying stage was a 21mm, Ti6Al4V press-fit **implant**. The skin-interfacing stage consisted of a Ti6Al4V **rod** and carbon collar where the **device** exited the body. The DSA **device** was fabricated for clinical and mechanical evaluation.

Mechanical evaluation consisted of a fatigue analysis of the **device** to determine the

useful life of the system and failure mode. In addition, cadaveric pull-out testing was conducted to determine the bone/**implant** interface strength.

Clinical evaluation consisted of two trials in adult, female, hairless Yucatan micropigs. The DSA systems were implanted by orthopaedic surgeons using surgical tooling fabricated solely for **device** placement.

From the results of the pilot study, the technique devised to design and select the DSA **device** was believed to be acceptable. The mechanical evaluation revealed that the **device** was mechanically stable and interface strength was adequate to **support** clinical loading. The clinical evaluation revealed potential flaws in the surgical protocol.

In conclusion, the...

18/3,K/25 (Item 1 from file: 45)

DIALOG(R)File 45: EMCare

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0003790573 **EMCARE No:** 30707753

Decompensation following scoliosis surgery: Treatment by decreasing the correction of the main thoracic curve or 'letting the spine go'

Arlet V.; Marchesi D.; Papin P.; Aebi M.

Montreal Children's Hospital, Division of Orthopedics, 2300 Tupper Street, Montreal, Que. H3H 1P3, Canada; Division of Orthopedic Surgery, McGill University, Montreal, Que., Canada

AUTHOR EMAIL: arletv@citenet.net

CORRESP. AUTHOR/AFFIL: Arlet V.: Montreal Children's Hospital, Division of Orthopedics, 2300 Tupper Street, Montreal, Que. H3H 1P3, Canada

CORRESP. AUTHOR EMAIL: arletv@citenet.net

European Spine Journal (Eur. Spine J.) (Germany) October 2, 2000 , 9/2 (156-160)

PUBLISHER: Springer Verlag

CODEN: ESJOE **ISSN:** 0940-6719

DOCUMENT TYPE: Journal ; Article **RECORD TYPE:** Abstract

LANGUAGE: English **SUMMARY LANGUAGE:** English

NUMBER OF REFERENCES: 19

...of adolescent idiopathic scoliosis (AIS) has been reported to be due to the Cotrel-Dubousset **rod** derotation maneuver, or to a hypercorrection of the main thoracic curve. The treatment of such decompensation consists classically in observation, bracing, or extension of the **instrumentation** in the lumbar spine for a King 2 curve, or in the upper thoracic spine... ...right thoracic curve (82(deg)and 85(deg)respectively) with an anterior release and posterior **instrumentation**. The revision surgery consisted for both patients in removing all the **hooks** between the end **vertebrae** of the main thoracic curve. This was done before the 3rd postoperative month for both... ...persisting imbalance, we recommend, in selected cases, letting the spine go by removing all the **implants** located between the end vertebrae of the main thoracic curve. This adjustment or fine-tuning of the **instrumentation** should be done before the fusion takes place, and is best achieved

with an **instrumentation** in which the hooks can be easily removed from the **rod**.

DESCRIPTORS:

*

brace; case report; deformity; female; follow up; human; idiopathic scoliosis; **implant**; **instrumentation**; lumbar spine; patient; preoperative evaluation; priority journal; shoulder; spine malformation; spine surgery; surgical technique; thoracic...

TERMS (UNCONTROLLED):

18/3,K/26 (Item 2 from file: 45)

DIALOG(R)File 45: EMCare

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0003512918 **EMCARE No:** 128241315

Implant-supported facial prostheses.

Baima R.F.

Department of Periodontics, University of Detroit, Mercy School of Dentistry, USA.

CORRESP. AUTHOR/AFFIL: Baima R.F.: Department of Periodontics, University of Detroit, Mercy School of Dentistry, USA.

The Journal of the Michigan Dental Association (J Mich Dent Assoc) (United States)

April 1, 1996 , 78/4 (50-54, 56-5464)

ISSN: 0026-2102

DOCUMENT TYPE: Journal ; Review **RECORD TYPE:** Abstract

LANGUAGE: English

NUMBER OF REFERENCES: 65

Implant-supported facial prostheses.

...defects from trauma or ablative cancer surgery a functional and esthetic restoration, with minimal morbidity. **Implant-supported** restorations offer a retrievable prosthesis with increased retention and **support**, by the use of tissue bars with clip retention, magnetic retentive mechanisms, or both. **Implant-supported** auricular, nasal, orbital, midfacial or combination prostheses are presently being provided for patients in hospitals...

DESCRIPTORS:

* **implant**; *prosthesis

bone regeneration; **bone screw**; cancer surgery; **clip**; external ear; hospital; human; implantation; injury; **instrumentation**; maxillofacial prosthesis; maxillofacial surgery; methodology; morbidity; North America; nose; orbit; patient; private practice; prostheses and...

TERMS (UNCONTROLLED):

18/3,K/27 (Item 3 from file: 45)

DIALOG(R)File 45: EMCare

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0003322015 **EMCARE No:** 27390720

Internal fixation of the spine in traumatic and scoliotic cases. The potential of pedicle screws

Van Brussel K.; Vander Sloten J.; Van Audekercke R.; Fabry G.

Afdeling Biomechanica en Grafisch Ontwerpen, Katholieke Universiteit Leuven, Celestijnenlaan 200A, B-3001 Heverlee, Belgium

CORRESP. AUTHOR/AFFIL: Vander Sloten J.: ABGO, Katholieke Universiteit Leuven, Celestijnenlaan 200A, B-3001 Heverlee, Belgium

Technology and Health Care (TECHNOL. HEALTH CARE) (Netherlands)
December 1, 1996 , 4/4 (365-384)

CODEN: THCAE **ISSN:** 0928-7329

DOCUMENT TYPE: Journal ; Review **RECORD TYPE:** Abstract

LANGUAGE: English **SUMMARY LANGUAGE:** English

NUMBER OF REFERENCES: 44

Internal fixation of the spine in traumatic and scoliotic cases. The potential of pedicle screws

Internal fixation techniques are in common used to **stabilize** vertebral fractures and correct severe scoliosis. Consolidation of injured vertebrae with neighbouring intact vertebra is... ..at in the latter case. Degenerative spine diseases are not considered in this paper. Classical **instrumentation** consists of **rods** (e.g., Cotrel-Dubousset, Harrington, Luque-Galveston) attached to the **bone** by means of **hooks** or wires. More recently, transpedicular **screws** are introduced as an alternative bone/**implant** interface. Comparing the results of several studies, the posterior pedicle **screw based devices** demonstrate the ability to produce the most rigid constructs. However, the insertion of pedicle **screws** implicates a relatively high complication risk and its succes strongly depends on the experience of the surgeon. Incorrect drilled holes or malplacement of the **screws** can result in nerve root injuries and fracture of the pedicle. Studies reported complication ratios... ..of automation of the critical actions may be necessary to enhance the safety of pedicle **screw** insertion. Two techniques of computer assisted spine surgery are compared. Both techniques permit a computer assisted surgical planning **based** on CT images. During operation the first system permanently observes the position of the drill...

DESCRIPTORS:

* osteosynthesis; *pedicle **screw**; *spine
automation; bone; bone **screw**; computer; computer assisted therapy; **device**; drill;
fracture; human; **instrumentation**; nerve root injury; osteoporosis; patient; planning;
preoperative evaluation; priority journal; risk; safety; scoliosis; spine disease...

TERMS (UNCONTROLLED):

18/3,K/28 (Item 1 from file: 23)

DIALOG(R)File 23: CSA Technology Research Database

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0012227350 IP Accession No: 200906-71-1152276; 200906-61-1173515;
20091132044; A09-99-1135551

Self-Adjusting Spinal Scoliosis Fusion Hook

Bobechko, Kevin A

, Canada

Publisher Url: <http://patents.ic.gc.ca/cipo/cpd/en/patent/1158402/summary.html>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE:
Abstracts in New Technologies and Engineering; Aerospace & High Technology

Self-Adjusting Spinal Scoliosis Fusion Hook

Abstract:

This invention relates to a medical **device**, namely a novel clip to be used in conjunction with a Harrington **rod** for the treatment of **spinal** disorders. The **hook** has a body portion with a housing at one end thereof, with a hooked portion... ..used in the procedure. This thus allows a patient to be mobile without external **support** immediately following surgery which has been impossible with the prior art **devices**.

Descriptors: Hooks; Housing; Clips; Surgery; Laminates; Channels; Inventions;
Spreads; Surgical **implants**; Disorders; Sleeves; **Devices**; Patients

Identifiers:

18/3,K/29 (Item 2 from file: 23)

DIALOG(R)File 23: CSA Technology Research Database

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0011640712 IP Accession No: 200903-71-0517896; 200903-61-0525745;
20090504853; A09-99-0505372

Tapered bone fusion cages or blocks, implantation means and method

Ray, Charles D

, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph->

[Parser?Sect1=PTO2&Sect2=HITOFF&u=/netahtml/PTO/search-](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netahtml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=7485120.PN.&OS=PN/7485120&RS=PN/7485120)

[adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=7485120.PN.&OS=PN/7485120&RS=PN/7485120](http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netahtml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=7485120.PN.&OS=PN/7485120&RS=PN/7485120)

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Abstract:

A novel **device** and method for fusions inside a forward widely tapering human disc space. A stabilizing/guiding system is driven into and against the disc space. The **device** is further **stabilized** by spreading and gripping means inside both **vertebral** end plates. **Rod retaining members** hold calibrated **rod** units whose adapted tips perform reaming and threading of the disc space. Subsequently, the tapered cage or **implant** can be inserted by a free-hand method under direct vision into the prepared and tapered bed. **Rod** unit divergent angulation is preferably set to match that of the disc space as well as the **implants** so they obtain optimal distributed purchase of vertebral bone. In one embodiment, inserts are confluent...

Descriptors: Disks; Discs; Bones; **Devices**; **Implants**; Cages; Tapering; Implantation; Walls; Tips; Spreading; Reaming; Chips; Calibration; Placement; Human; Vision; Inserts; End plates...

Identifiers:

18/3,K/30 (Item 3 from file: 23)

DIALOG(R)File 23: CSA Technology Research Database

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0010612762 IP Accession No: 200811-71-2158647; 200811-61-2261696;
20082099546; A08-99-2203043

Device for facilitating the taking of an impression of bone portions of the mouth, and method of using same

Linkow, Leonard I
, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netaht ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PALL&S1=39 16527.PN.&OS=pn/3916527&RS=PN/3916527>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Device for facilitating the taking of an impression of bone portions of the mouth, and method...

Abstract:

...impression of the bony portion of a patient's mouth, and then to make an **implant**-type attachment using that portion of the patient's bone structure as a **support**, a prototype **device** is used which may readily be shaped to conform to the portion of the bone...
...conventional fashion, to take the impression of the rest of the patient's mouth. The **device** is removed from the mouth of the patient as a unit with the impression material, after which the attachment is fabricated so that a **support** portion thereof conforms to the shape of the **device**. The prototype **device** comprises a U-shaped flexible sheet which may readily be caused to conform to the shape of the bone structure in question, and a **post** member extends therefrom into the mouth of the patient, the impression material surrounding and captivating that **post** member.

Descriptors: Devices; Mouth; **Bones**; **Attachment**; Prototypes; Patients; United States; Rest; **Supports**
Identifiers:

18/3,K/31 (Item 4 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database
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0010603440 IP Accession No: 200811-71-2155404; 200811-61-2258453;
20082096303; A08-99-2199800

Dental implant assembly and method for attaching the same to the jaw bone

Lenczycki, Joseph J
, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netaht ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PALL&S1=39 19772.PN.&OS=pn/3919772&RS=PN/3919772>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Dental implant assembly and method for attaching the same to the jaw bone

Abstract:

A dental **implant** assembly consists of one or more planar members adapted to be introduced into complementary cavities or slots formed in the jaw **bone**. Threaded **fasteners** are disposed through holes in the jaw bone and oriented in directions generally normal to... ...the threaded fasteners for immobilizing the planar members within the cavities relative to the jaw **bone**. At least one of the **fasteners** includes a **support** portion which projects exteriorly of the jaw **bone** when the planar **members** and the **fasteners** are in engagement. The **support** portion is adapted to **support** a dental prosthetic **device**

in fixed relation to the jaw bone during engagement. A dental jig for accurately drilling the holes in a jaw **bone** which receive the **fasteners** is described. The method of inserting a planar dental **implant** assembly member into a jaw bone includes cutting in the jaw bone a slot complementary... ..the apertures in the jig. The planar member is inserted into the complementary slot and **screws** are introduced through the holes drilled in the jaw bone and engage threaded apertures provided in the planar member. At least one exposed portion associated with the threaded **screws** is retained exposed which is adapted to **support** a prosthetic **device**. A jig is also described for forming two slots essentially aligned in a common plane...

Descriptors: Bones; Threaded; **Fasteners**; Assembly; Dental **implants**; Apertures; Holes; Drilling; Prosthetic **devices**; Exposure; Cutting; United States; Joining; Planes; Forming; Alignment

Identifiers:

18/3,K/32 (Item 5 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database
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0010332340 IP Accession No: 200809-71-1937153; 200809-61-2039433;
20081889472; A08-99-1993129

Knee joint load measuring instrument and joint prosthesis

Kovacevic, Nebojsa
, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netaht ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=51 97488.PN.&OS=pn/5197488&RS=PN/5197488>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Knee joint load measuring instrument and joint prosthesis

Abstract:

...disclosed for measuring dynamically forces applied to a prosthetic joint. The system comprises a first **support** member attached to an outer surface of a first **bone**, a second **support member attached** to an outer surface of a second bone and a transducer secured to the second **support** member and engaging the first **support** member. The transducer measures forces applied to the first and second **support** member as the prosthetic joint is articulated and provides a representative force output signal. In... ..and defining a force responsive flexure section. A plate is secured to the transducer with **support posts** to

localize forces onto the flexure members. Although the assembly forms components for **implementation** of a knee prosthetic, the present invention can be adapted to any particular joint of...

Descriptors: Flexing; Transducers; Prosthetics; Bones; Dynamical systems; Knees; Dynamics; Holes; Assembly; Inventions; Loads (forces); Surgical **implants**; Articulated
Identifiers:

18/3,K/33 (Item 6 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database
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0010245877 IP Accession No: 200809-71-1719125; 200809-61-1821376;
20081671942; A08-99-1775611

Bone fracture fixation device

Burstein, Albert H; Bennett, Jeffrey S
, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netaht ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=50 15248.PN.&OS=pn/5015248&RS=PN/5015248>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Bone fracture fixation device

Abstract:

A bone fracture fixation **device** for stabilizing a fracture of a portion of a long bone overlying or closely adjacent to a prosthetic joint component comprises a fixation plate that is held adjacent to the **bone** by **clamps** joined to it by **screws**. The fixation plate and clamps have spikes that penetrate partly into the bone to fix the bone to the **device** and **stabilize** the fracture but that also remain partly outside the bone and serve as **spacers** to hold the plate and **clamps** spaced apart from the **bone**, thereby leaving the periosteum undisturbed and preserving good blood distribution to the bone at the...

Descriptors: Bones; Fracture mechanics; Fixation; **Clamps**; Blood; **Spacers**; Prosthetics; Bursting; Spikes; Healing; Preserving

Identifiers:

18/3,K/34 (Item 7 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database
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0009977671 IP Accession No: 200808-71-1091885; 200808-61-1193005;
20081053050; A08-99-1156035

Rod anchor seat having a sliding interlocking rod connector

Puno, Rolando M; Mellinger, Philip; Byrd III, J Abbott
, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netaht ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=54 96321.PN.&OS=pn/5496321&RS=PN/5496321>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Rod anchor seat having a sliding interlocking rod connector

Abstract:

A spinal **implant** assembly is provided having a top loading anchor which is fixed to a **spinal** member by means of a **hook** or **screw**. The anchor includes a seat having a channel to receive a **stabilizer rod** and a sliding interconnecting closure member which slides in a longitudinal direction relative to the... ..seat member includes a boss and/or hollow to form a biased lock and compression **screw** to lock the **rod** in position relative to the anchor. An **instrument** is provided which holds the slide for assembly in a spring loaded ball plunger.

Descriptors: Seats; Anchors; Assembly; Sliding; Channels; Locks; Flanges; Connectors; Surgical **implants**; **Spine**; **Hooks**; Connecting **rods**; Compressing; Undercuts; Locking; Bosses; Plungers; Springs

Identifiers:

18/3,K/35 (Item 8 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database
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0009766888 IP Accession No: 200808-71-1043603; 200808-61-1144947;
20081005335; A08-99-1108477

Device to stabilize a cutting means for the fitting of a prosthesis in bone surgery

Bouraly, Jean-Pierre; Aebi, Jurg; Beaufils, Philippe; de Lestang, Michel; Gaffuri, Jean-

Gilles; Hourlier, Herve; Lallement, Jean-Jacques; Legroux, Philippe; Levai, Jean-Paul; Pondaven, Gerald; Schuster, Pierre; Vergnat, Christian
, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netaht ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=54 90855.PN.&OS=pn/5490855&RS=PN/5490855>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Device to stabilize a cutting means for the fitting of a prosthesis in bone surgery

Abstract:

A **device** for the axial stabilization of a cutting means, used to make at least one cut...
...view to the fitting of a prosthesis in bone surgery. It includes an axial centering **rod** that is introduced partially into the intramedullar canal of said bone and is designed to receive said one cutting means. The centering **rod** is provided with an anchoring thread so as to form an anchor **bolt** that is axially **stabilized** in a direction parallel to the axis of the **rod**. A clamping **device** is mounted to the **rod** and axially **clamps** the cutting means inst the **bone**.

Descriptors: Bones; Cutting equipment; Surgery; Prosthetics; Positioning; Surgical **implants**; Fittings; Cutting; Stabilization; Clamps; Anchoring; Anchor **bolts**; Clamping; Canals

Identifiers:

18/3,K/36 (Item 9 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database
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0009619593 IP Accession No: 200807-71-0890073; 200807-61-0990583;
20080856149; A08-99-0960197

Articulating toggle bolt bone screw

Mullane, Thomas S
, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netaht ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=56 28740.PN.&OS=pn/5628740&RS=PN/5628740>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Articulating toggle bolt bone screw

Abstract:

An articulation toggle **bolt** bone **screw** for use in surgical **implants** having particular usefulness in the stabilization of the human spine by fixation of vertebra. The **apparatus** employs a self-tapping anchoring **screw** having a ball joint socket for receipt of a rotatable threaded **bolt**. The ball joint allows angular placement of the **bolt** which is secured into position by an attachment **nut** coupling directly to the anchoring **screw**. An upper surface of the attaching **nut** is rounded allowing engagement of component **devices**. A **rod** clamp is disclosed for use in combination with the **device** providing attachment to **support rods** and serving to bias the **bolt** into a permanent fixed position upon attachment. An alternative embodiment is disclosed of the **rod** clamp providing a single **support rod** attachment system.

Descriptors: **Bolts**; Bolted joints; Bolting; Attachment; **Bones**; Anchoring; Ball joints; **Clamps**; Joining; Threaded; **Rods**; Sockets; Surgical **implants**; Spine; Stabilization; Bias; Fixation; Angular position

Identifiers:

NPL FULLTEXT

? show files

File 9:Business & Industry(R) Jul/1994-2009/Jun 27
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File 98:General Sci Abs 1984-2009/Jun
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? ds

Set	Items	Description
S1	1021670	VERTEBRA? OR INTERVERTEB? OR SPINE? OR SPINAL OR SPINOUS OR LUMBAR OR VERTEBR? OR BACKBONE OR BONE? ? OR DISC()NUCLEUS OR ORTHOPED? OR ORTHOPAED? OR SKELET? OR OSSEO? OR OSTEOAL OR OSTEOID OR OSTEOLOG? OR ANNULUS OR SYNOVIAL OR CONDYL? OR INTERSPINOUS?? OR INTERSPINAL?? OR BETWEEN(1W) (SPINOUS OR VERTEBRA? ?)
S2	1156158	HOOK??? OR FASTENER? OR (FASTEN? OR ATTACH? OR RETAIN? OR RETENTION?) (2N) (MEMBER? ? OR ELEMENT? ? OR MECHANISM? OR DEVICE? ?) OR CLAMP OR CLAMPS OR CLASP OR CLASPS OR CLOSURE OR CLOSURES OR CLIP OR CLIPS
S3	152366	SPACER? ? OR IMPLANT? ?
S4	10765561	BRACE? OR STABILIZE? OR SUPPORT?

S5 4585274 NUT? OR SCREW? ? OR POST OR POSTS OR PIN OR PINS OR ROD
OR RODS OR BOLT
OR BOLTS OR PEG OR PEGS

S6 11448440 DEVICE? OR APPARATUS? OR INSTRUMENT? OR IMPLEMENT? OR
TOOL? ?

S7 3362 S1(10N)S2
S8 215 S7(10N)S3
S9 100 S7(10N)S4
S10 393 S7(10N)S5
S11 9 S8(10N)S9
S12 20 S9(10N)S10
S13 21 S11 OR S12
S14 8 S13(10N)S6
S15 6 RD (unique items)

? t s15/3,k/1-6

15/3,K/1 (Item 1 from file: 16)
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04649423 **Supplier Number:** 46839904 (USE FORMAT 7 FOR FULLTEXT)

United States Surgical's Spine Cage Approved By The FDA

PR Newswire , p 1029NYTU110

Oct 29 , 1996

Language: English **Record Type:** Fulltext

Document Type: Newswire ; Trade

Word Count: 536

-

The Ray TFC* cage is a major technological advance in implantable
spinal

devices designed to provide **support** during **bone**
in-growth for patients with painful degenerative disease. Unlike
complex

hook, rod and **screw** systems, **spine** cages are
relatively easy to **implant** and can reduce operating time, tissue
trauma and blood loss. In addition, the Ray TFC...

15/3,K/2 (Item 2 from file: 16)
DIALOG(R)File 16: Gale Group PROMT(R)
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04551904 **Supplier Number:** 46690268 (USE FORMAT 7 FOR FULLTEXT)

United States Surgical's Spine Cage Found Approvable By the FDA

PR Newswire , p 0906NYF043

Sept 6 , 1996

Language: English **Record Type:** Fulltext

Document Type: Newswire ; Trade

Word Count: 504

-

The Ray TFC* is a major technological advance in implantable spinal **devices** designed to provide **support** during **bone** in-growth for patients with painful degenerative disease. Unlike complex **hook, rod** and **screw** systems, **spine** cages are relatively easy to **implant** and can reduce operating time, tissue trauma and blood loss. In addition, the Ray TFC...

15/3,K/3 (Item 1 from file: 441)

DIALOG(R)File 441: ESPICOM Pharm&Med DEVICE NEWS

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00006533 00005058 (USE FORMAT 7 OR 9 FOR FULLTEXT)

United States Surgical's spine cage approved by the FDA

Medical Device Companies Analysis

30 October 1996 (19961030)

Record Type: FULLTEXT **Word Count:** 153 **Company:** United States Surgical Corporation; Surgical Dynamics Inc.

(THIS IS THE FULLTEXT)

Text:

...a USSC subsidiary.

The Ray TFC cage is a major technological advance in implantable spinal **devices** designed to provide **support** during **bone** in-growth for patients with painful degenerative disease. Unlike complex **hook, rod** and **screw** systems, **spine** cages are relatively easy to **implant** and can reduce operating time, tissue trauma and blood loss. In addition, the Ray TFC...

15/3,K/4 (Item 2 from file: 441)

DIALOG(R)File 441: ESPICOM Pharm&Med DEVICE NEWS

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00006190 00004746 (USE FORMAT 7 OR 9 FOR FULLTEXT)

US Surgical's Spine Cage approved by the FDA

Medical Device Companies Analysis

12 September 1996 (19960912)

Record Type: FULLTEXT **Word Count:** 163 **Company:** United States Surgical Corporation; Surgical Dynamics, Inc
(THIS IS THE FULLTEXT)

Text:

...by Surgical Dynamics, Inc., (SDI), a USSC subsidiary.
The Ray TFC is an implantable spinal **device** designed to provide **support** during **bone** in-growth for patients with painful degenerative disease. Unlike complex **hook, rod** and **screw** systems, **spine** cages are said to be relatively easy to **implant** and can reduce operating time, tissue trauma and blood loss. The company also claims that...

15/3,K/5 (Item 3 from file: 441)
DIALOG(R)File 441: ESPICOM Pharm&Med DEVICE NEWS
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00002064 00008848 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Product News - US Surgical - Spine Cage

Medistat News

30 November 1996 (19961130)

Record Type: FULLTEXT **Word Count:** 96
(THIS IS THE FULLTEXT)

Text:

...a USSC subsidiary.
The Ray TFC cage is a major technological advance in implantable spinal **devices** designed to provide **support** during **bone** in-growth for patients with painful degenerative disease. Unlike complex **hook, rod** and **screw** systems, **spine** cages are relatively easy to **implant** and can reduce operating time, tissue trauma and blood loss. In addition, the Ray TFC...

15/3,K/6 (Item 4 from file: 441)
DIALOG(R)File 441: ESPICOM Pharm&Med DEVICE NEWS
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00001885 00008675 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Product News - US Surgical - Spine Cage

Medistat News

30 September 1996 (19960930)

Record Type: FULLTEXT Word Count: 163
(THIS IS THE FULLTEXT)

Text:

...by Surgical Dynamics, Inc., (SDI), a USSC subsidiary.
The Ray TFC is an implantable spinal **device** designed to provide
support during **bone** in-growth for patients with painful
degenerative disease. Unlike complex **hook, rod** and
screw systems, **spine** cages are said to be relatively easy to
implant and can reduce operating time, tissue trauma and blood loss.
The company also claims that...